

CV



SÉBASTIEN NOBOUR

**FULL-STACK SOFTWARE
ENGINEER REACT.JS ·
TYPESCRIPT · NODE.JS**

6 years of experience

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ABOUT

I have extensive experience in designing, developing, and maintaining scalable and secure applications. I drive innovation by adopting advanced technologies through exploration and prototyping. I follow best practices like Continuous Delivery, Domain Driven Design, DevOps, and the Agile Manifesto. These methods define the technical approach in order to maintain a deliverable that is easily modifiable and highly available, while limiting costs. I resolve technical debt and improve code quality while staying up to date with emerging technologies to enhance software solutions. I have expertise in database architecture, cloud integration, and test-driven development, with a strong focus on automation and continuous integration/deployment (CI/CD) to accelerate delivery timelines.

EDUCATION



CORE SKILLS

- Software Development Lifecycle
- New Feature Development
- Technical Documentation & Reporting
- **AI integration**
- **CI/CD Pipeline** Management
- **Full-Stack Development (Front-end, Mobile, Back-end Engineering)** mainly with **React.js, Node.js, Typescript, and React Native**
- **Pair/Mob programming** & Quality Assurance
- Workflow Optimization & Process Automation
- **Loading performance optimization & scalability**
- Team Leadership & Mentorship, code review & onboarding
- UI/UX Component Development
- API Design, Development & Integration
- **Hexagonal Architecture**, Microservices
- Debugging, Troubleshooting & Issue Resolution
- Legacy System Migration & Modernization
- Database Design & Management
- Stakeholder Communication & Requirement Analysis
- Budget Planning & Cost Forecasting
- **Behavior-Driven Development, Test-Driven Development, and Acceptance Test-Driven Development**

LANGUAGES

English: Fluent
French: Fluent (native)
Spanish: Basic
Dutch: Learning

INTERESTS

Agile Agnostic, Lean Thinking, DevOps, Continuous Delivery
Private Equity startup investor (Y Combinator, Rebel Fund)
Engineering & Scientific culture
Domain Driven Design
Public speaker in French and English
Tech and Agile Conferences

REFERENCE

Contact information available upon request.

Thibaut C. (ANCT): Project Manager.
Corentin T (Tortuga Outdoor): Founder.
Laurent B. (OMNES Education): CTO.

TRAINING

Continuous Delivery and **Anatomy of a Deployment Pipeline** from Dave Farley
Web Developer & Integrator, Next.js, Nest.js, Amazon Web Services, Serverless Framework

PROFESSIONAL EXPERIENCE

Node.js • TypeScript • React.js Full-stack Engineer

Freelance

Since 01/2025

I worked with three different clients in 2025:

- **OMNES Education**, an Ed-Tech investment fund owning educational campuses (Sup de Pub, INSEEC...), is developing MatchUp, a work-student jobboard.
- **Ramify**, a French Series A FinTech startup that raised 11 million euros in 2021,
- **Chanel**, the French Luxury maison.

I collaborated within cross-functional teams composed of developers, business analysts, testers, product owners, project managers, UI/UX designers, lead developers, and experts in SEO, accessibility, and web performance.

My contributions:

- **Back-end development**: Creation of secure REST APIs with Node.js, Express.js, and TypeScript to manage user data and business processes
- **Application security**: Implementation of JWT and Microsoft Authentication, with data validation via Zod
- **Data architecture**: Design of NoSQL models with Mongoose for MongoDB and Azure Cosmos DB
- **User role management**: Development of a secure impersonation system
- **Technical standardization**: Implementation of Docker development environments to harmonize tool versions and streamline team collaboration
- **Front-end development**: Creation of responsive, multilingual user interfaces with React.js and Next.js
- **Application modernization**: Migration of a React.js application to a new design system based on Figma mockups
- **Performance optimization**: Improvement of loading times and application fluidity using React hooks and conducting core web vital performance tests (INP, LCP, etc.)
- **Data enrichment**: Creation of an automated pipeline to enrich authentication and profile data
- **AI innovation**: Development of an automatic resume analysis feature via the ChatGPT API, reducing manual data entry time by 80%

Links: omneseducation.com, matchup.omneseducation.com, ramify.fr, chanel.com

Skills: React.js • Next.js • TypeScript • Express.js • Nest.js • Fastify.js • JavaScript • Node.js • JWT • Zod • Redux (Thunk) • Tailwind CSS • ChakraUI • Radix UI • JSX • Jest • SQL (PostgreSQL) • Microsoft Azure • Docker • Git (GitHub, Azure DevOps) • GitHub Actions • MongoDB (Mongoose, Azure Cosmos) • i18n (react-i18n) • Prisma ORM • REST JSON API • HTML • CSS • Figma • React Hook Form • Formik • Cypress • ESLint • Axios • TanStack Query React • Scrum • Jira • Confluence • YAML • Pair Programming • Salesforce CRM • OpenAI API Integration • Prompt Engineering • File Upload Processing • Real-time Data Streaming • AI/ML Integration

Node.js · TypeScript · React.js Full-stack Engineer

Tortuga Outdoor

Since 10/2024

Tortuga was founded in 2024 by Corentin Teulet, a full-stack developer from the Toulouse region.

Passionate about mountain sports, he realized that there was no dedicated space where mountain sports and outdoor enthusiasts could meet and share their passion. So he created Tortuga with the mission of fostering human connections, making the mountains accessible, inspiring and being inspired, sharing his passion for the mountains and enriching it.

I joined Tortuga as technical co-founder and Typescript, React Native, Nodes.js, React.js, Next.js developer.

I carried out the following tasks:

- **Design of the roadmap of functionalities** to be developed and their prioritization using a Kanban board, based on Agile, Lean and No Estimates principles.
- **Technological and architectural choices**
- **Mentoring** and training of developers, including interns
- **Front-end development** of web and mobile applications with Next.js, Tailwind CSS, HeroUI/NextUI, React Native, Expo, Native Wind, TypeScript, Jotai and Tanstack Query
- **Back-end development**, including secure React Server Functions and REST API and RPC endpoints, communicating with the database in Next.js, Supabase, React, TypeScript, Node.js, JWT, Supabase and PostgreSQL
- **Development of real-time functionalities** with Supabase and the WebSocket publish/subscribe protocol for a chat feature
- **Implement continuous delivery** in our working practices (DevOps, Trunk Based Development, CI/CD, Observability) to ensure product stability and scalability while optimizing our resources.
- **Developed thorough automated tests** (unit, end-to-end, integration) with vitest, react testing library, playwright, MSW

During this experience, Tortuga's numbers evolved as follows:

- More than 600 users within 3 months

Link: tortuga-outdoor.fr

Skills: HTML5 • CSS3 • JavaScript • Typescript • Node.js • React.js • Next.js • React Native • Expo • PostgreSQL • SQL • JSX • Markdown • Storybook • Jest • Vitest • React Testing Library • Figma • Playwright • Tailwind CSS • Native Wind • Kotlin • Swift • Android • iOS • XML • Java • Linux • Git • Github • Docker • DockerCompose • Github Action • Zustand • Tanstack Query React • JSON • JWT • Zod • Supabase • Agile • Kanban • No Estimates • MSW • Github • Trunk Based Development • Pair Programming • RevenueCat • xCode

Node.js · TypeScript · React.js Full-stack Engineer

ANCT

(01/2024 - 12/2024)

The Agence Nationale de la Cohésion des Territoires (ANCT) is a French public institution created in 2019. It operates in the field of sustainable development and territorial cohesion. Its mission is to advise and support local authorities in the design and implementation of their projects, facilitating access to the necessary technical and financial resources.

I joined the Suite Territoriale team as the first developer to contribute to the development of a secure digital platform. This platform provides local authorities with essential online tools, such as an email service, storage space, a dedicated domain name, and a user administration console to enhance their daily operations.

My team included two Python/Django developers, two React.js/Node.js/Typescript/Next.js developers, one Product Owner and UX Designer, one project manager, and two deployment managers.

I performed the following tasks:

- **Development:** Created features on schedule, developed components for an open-source French Design System library used in institutional digital products.
Designed and implemented high-performing, responsive, and accessible components and pages, enhancing user experience and reducing load times through optimized code using React.js, Node.js, Typescript, Next.js, Emotion, and Zustand.
Facilitated data transfer and caching between client and server applications with TanStack Query React.
- **Self-organized agile rituals:** Collaborated with developers, designers, product owners, deployment managers, CTO, and project managers in weekly and monthly meetings to define OKRs, KPIs, and feature completion criteria using a whiteboard and Github Projects as a Kanban board.
- **Automated testing:** Created unit, rendering, and end-to-end tests to prevent regressions and avoid lengthy, costly, and unreliable manual testing, thereby improving code reliability and development speed using Jest, Vitest, Testing Library React, and Playwright.
- **Internationalization:** Implemented multilingual support (French/English) with React-i18next and Crowdin, making the application accessible to an international audience.
- **Design:** Participated in forums with developers and clients to design interconnection systems between different products.

During my one-year experience, the numbers evolved as follows:

- 30 beta testers for the secure email service after six months of development.

Link: suiteterritoriale.anct.gouv.fr

Skills: HTML5 • CSS3 • JavaScript • Typescript • Node.js • React.js • Next.js • Python • Django • PostgreSQL • JSX • Markdown • Storybook • Jest • Vitest • React Testing Library • Figma • Playwright • Emotion.js • Linux • Git • Github • Docker • Docker Compose • Github Action • Zustand • Tanstack Query React • Argo CD • Makefile • Outline • tRPC • RESTful • React hook form • JSON • OpenID • System for Cross-domain Identity Management • JWT • Zod • JSON • React-i18next • ESLint • Koa.js • Open Source • Changelog • Semantic Versioning • Python • Django • PyTest • Agile • Kanban • Github Projects

Node.js • TypeScript • React.js Full-stack Engineer

Groupe Rapido

(09/2021 - 12/2024)

Groupe Rapido is a company in the recreational vehicle sector that aims to offer high-quality products, combining comfort and innovation, to provide unique travel experiences for its customers. The company has approximately 2,000 employees.

I joined Leb Communication, the company responsible for developing Week and Go, to contribute to the creation of Groupe Rapido's digital marketplace dedicated to selling motorhomes. Our team included 1 project manager, 1 PHP back-end developer, 1 web integrator, 1 full-stack Node.js React.js Next.js developer, and 1 digital marketing specialist.

I performed the following tasks:

- **Development and Maintenance:** Created responsive user interface components in React.js and Next.js, optimized data models in a headless CMS to ensure scalability. Developed REST endpoints to streamline back-end processes with Strapi CMS and MySQL, accompanied by their technical documentation using JSDoc and Storybook. Performed monthly dependency updates (patches, minor, and major versions).
- **Technology leadership:** Advised on technology selection, guided developers in improving their skills, established efficient workflows, and automated repetitive technical tasks to enhance productivity.
- **DevOps:** Simplified tasks by automating regression tests and deployments across different environments using GitLab CI, GitLab Runners, and Docker.
- **Testing:** Led the development and execution of comprehensive testing strategies using Jest, Testing Library React, Chromatic, and Playwright, ensuring application performance and quality with unit tests to validate core functionalities, rendering tests for UI consistency, high-accuracy visual tests to maintain design integrity, and end-to-end tests to verify full functionalities.
- **On-time project delivery:** Reduced project delays and optimized the client's budget by revitalizing an underperforming team, decoupling dependent features, and streamlining processes for more efficient software delivery.
- **Enabled client in generating revenue:** Delivered the project on time by postponing non-critical features, prioritizing development, and removing blockers.

During my 3-year experience, the numbers evolved as follows:

- €50K in annual revenue from 2022 to 2024
- 3 million unique annual visits

Link: corporate-rapido.com

Skills : HTML5 • CSS3 • JavaScript • Node.js • React.js • Next.js • Strapi CMS • MySQL • PHP • API Platform • JSX • JSDocs • Markdown • Storybook • Jest • Testing Library React • Figma • Playwright • Cucumber • Gherkin • Chromatic • Material UI/MUI • Linux • Git • Gitlab (Gitlab CI, Gitlab Runner) • Docker • DockerCompose • Redux • Zustand • Reacthook form • Joi • JSON • REST • JWT • Mirage.js • Agile

Back-end Engineer

Vodafone Ziggo

(02/2023 – 02/2024)

Vodafone Ziggo is a telecommunications company whose goal is to provide integrated communication and entertainment services to individuals and businesses. The company has approximately 7,000 employees.

I joined the Network Orchestration team within the Network as a Service Tribe to contribute to network automation, optimization, and the implementation of seamless connectivity solutions. My team consisted of a Scrum Master, a Product Owner, two Java developers in the Netherlands, four Java developers in India, a tester/quality analyst, and a lead developer.

I performed the following tasks:

- **API Development & Automation:** Created endpoints to automate and manage virtual network resources within a Network-as-a-Service (NaaS) framework using Java and Spring Boot.
Developed virtual network infrastructure on the Amdocs Neo Platform, a low-code platform, enabling faster deployment, cost reduction, and improved scalability for enterprise clients.
- **Documentation & Knowledge Sharing:** Compiled and maintained comprehensive documentation in **Confluence** to facilitate team collaboration and accelerate onboarding for new members, improving project delivery.
- **Data Management & Compliance:** Designed data transfer model formats to support network resource creation, ensuring data accuracy in compliance with the TMF 648 specification.
- **Technical Mastery & Efficiency:** Gained full proficiency in Java, Spring Boot, and the Amdocs Neo Platform in just three months.
- **Scrum and SAFe Organization:** Participated in Scrum and Scaled Agile Framework for Enterprise (SAFe) ceremonies (daily stand-ups, planning, review, retrospectives, and demo meetings) and tracked work progress using Jira.

During this one-year experience, Vodafone Ziggo's KPIs evolved as follows:

- **Business Broadband Connections:** The business broadband segment added 3,100 new connections in Q1 2024, reflecting a growing demand for reliable internet services among businesses, likely driven by digital transformation and remote work trends.
- **Average Revenue Per User (ARPU):** There was an increase of 4.2% for fixed services and 3.4% for mobile services in Q1 2024.

Link: [vodafoneziggo.nl](https://www.vodafoneziggo.nl)

Skills: Java (18) • Spring Boot • Apache Maven • Sonatype Nexus • TMF 648 specification • Contract Based Development • Low Code • REST • XML • JSON • Network as a Service (NaaS) • Confluence • Jira • Amdocs Neo Platform • Junit • Jfrog • Gitlab • Postman • Kubernetes • Docker • Git • Scrum • Scaled Agile Framework for Enterprise (SAFe)

Node.js · TypeScript · React.js Full-stack Engineer

Freelance

(01/2019 – 08/2021)

As a freelancer, I worked on various projects. They include Social Smartz, a professional social networking platform for a Dutch startup; Product Feedback, a marketing SaaS for a French startup; SAFCO, a Dutch manufacturer of safety shoes; La Centrale, a French online marketplace for used cars.

I worked primarily alone and in self-organized/agile teams of 2 to 6 people using Scrum.

I performed the following tasks:

- **Back-end, Cloud & Serverless Development, and API Integration:** Developed REST endpoints and GraphQL resolvers in Node.js to enhance data retrieval and enable seamless integration for front-end applications. Set up monolithic application servers with Express.js, microservices with Nest.js to separate service responsibilities, and cloud serverless systems with AWS Lambda Functions and Serverless Framework. Configured object storage solutions such as AWS S3 for scalable data management. Integrated message queues for inter-service communication using event-driven architecture with AWS SQS and SNS services. Implemented scheduled event-driven functions to automate workflows. Developed custom server application logic to process payments with PayPal, generate downloadable PDF invoices, manage orders, monitor stock and sales, and send emails.
- **Authentication & Authorizations:** Implemented authentication and authorization systems with JWT, ensuring secure access to back-end applications. Developed secure account creation and password reset features.
- **Security:** Built data validation and transformation pipelines using Pipes and Data Transfer Objects (DTOs) with Zod, Joi, and Yup. Implemented secure password hashing and storage mechanisms for sensitive information.
- **Platform Engineering:** Managed infrastructure provisioning and automation, optimizing deployment efficiency with Serverless Framework, AWS ECS, EC2, and Docker.
- **Front-End Development, Internationalization & UI Optimization:** Developed responsive Single Page Applications (SPA) with internationalization for French, English, and Dutch languages using React.js and Ember.js. Created reusable UI components to enhance user experience, maintainability, and code scalability.
- **Application Analysis & Migration Planning for Maintenance:** Analyzed the functionalities and purpose of a six-year-old full-stack legacy application built with Ember.js and Symfony before initiating its migration to ensure the application remained fully operational during and after the transition.
- **Application Performance Optimization & Testing:** Enhanced application performance by improving code quality, reducing bugs, and increasing scalability through the implementation of unit and integration tests with QUnit, PHPUnit, and Jest.
- **Observability:** Implemented efficient logging mechanisms for better monitoring and debugging using Winston.
- **DevOps & CI/CD Implementation:** Defined system images and multi-stage CI/CD pipelines for automated builds and deployments in test, preproduction, and production environments using GitHub Actions and GitLab CI.

Links: safco-safety.com, lacentrale.fr

Skills: React.js • Nest.js • TypeScript • Javascript • Node.js • GraphQL (Apollo) • JWT • OAuth2 • OpenID • Amazon Web Services (Web Application Firewall, API Gateway, Lambda, DynamoDB, CloudFormation, Amplify, Elastic Container Service, Elastic Container Registry, Elastic Compute Cloud, Simple Queuing Service, Simple Email Service, Simple Notification Service, Event Bridge, Route 53, Simple Storage Service, Elastic Load Balancer, IAM, Virtual Private Network, Cost Explorer, Lightsail, Secret Manager, Code Pipeline) • Zod • Joi • Yup • Serverless Framework • Infrastructure as Code (IaC) • Redux • Styled-components • Bootstrap • JSX • Qunit • PHPUnit • Jest • QUnit • SQL (PostgreSQL, MySQL, Pg Admin, PHP My Admin, Maria DB) • Ember.js • JWT • OAuth2 • PHP • Symfony • API Platform • Neo-Framework • Docker • Git (Github, Bit Bucket, Gitlab) • GitHub Actions • Gitlab CI • MongoDB ODM (Mongoose) • Express.js • ORM (Mikro-ORM, Doctrine, TypeORM) • RESTful • REST • HTML • CSS • Figma • Adobe XD • Google Analytics • React hook form • Formik • Winston • Wordpress (Bedrock, Woo Commerce) • Shopify • Vagrant • PM2 • Axiom • Lodash • Cypress • Browserstack • Eslint • Axios • Scrum • Sass • Websocket • Kafka • Agile

Back-end Engineer

Valeo

(08/2019 – 09/2020)

Valeo is a global automotive supplier headquartered in France, specializing in the design, production, and sale of components and systems for the automotive industry. The company focuses on developing innovative solutions that promote smart mobility, with an emphasis on intuitive driving and reducing CO₂ emissions. In 2023, Valeo reported €22.04 billion in revenue and employed approximately 114,700 people worldwide.

I joined the Valeo Licenses and Tools team within the Thermal Systems department as a PHP developer, to design a custom application for monitoring the usage of engineering software licenses. My team consisted of a project manager and a developer.

I performed the following tasks:

- **License Monitoring & Optimization:** Led the license tracking initiative to support the global software license management team in monitoring and managing license usage across the division. Monitored software license usage, identified saturation risks, and advised engineering teams on optimizing resource management instead of requesting additional licenses.
- **Legacy System Migration & Architecture Upgrade:** Migrated a legacy PHP Ajax JQuery application to Symfony, adopting the Model-View-Controller (MVC) architecture and Object-Oriented Programming (OOP) principles to enhance system performance and maintainability. Improved a 15-year-old project, increasing its stability and maintainability, avoiding a complete rebuild, and saving approximately six months of development for future teams.
- **Feature Development & User Experience Enhancement:** Designed interactive charts with Charts.js and JQuery, significantly improving user engagement and data visualization on the platform.
- **License Renewal Management & Automation:** Managed software license renewals by creating a **sorted list based on expiration dates** and triggering timely email alerts for upcoming renewals.
- **Server Monitoring & DevOps Optimization:** Maintained and optimized PHP scripts to support scheduled tasks, ensuring smooth polling of 500 servers worldwide. Defined **database models** for resource persistence, performed manual update deployments, and progressively automated processes using DevOps practices, reducing errors.
- **Proof of Concept:** Developed applications to showcase the benefits of using a popular framework like Symfony or API Platform with React.js, improving code reusability by leveraging SOLID principles and common architectural designs to facilitate product scalability and maintenance.

During this one-year experience, Valeo's KPIs evolved as follows:

- The company generated €519 million in free cash flow, demonstrating resilience in a challenging automotive market.
- Despite the global health crisis, Valeo achieved an EBITDA margin of 13.9% in the second half, with free cash flow reaching €1.34 billion, and reduced net debt below €3 billion.

Link: valeo.fr

Skills : React.js • Node.js • PHP • API Platform • Symfony • Bootstrap • JQuery • AJAX • SQL (Windows SQL Server, MySQL, Oracle SQL) • Doctrine • Beyond Compare • SSH • Git (Collab Net) • Windows Server • Linux • Chart.js • MVC • SOLID • Oriented Object Programming (OOP) • REST • HTTP • TLS • SSL • Agile

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