Romain J. Giovanetti

Full-Stack Software Engineer romain@giovanetti.fr

Profile

Full-Stack Engineer with **11 years of international experience** in designing, developing, and maintaining scalable web applications.

Passionate about high-quality code, user-centric design, and performance optimization.

Specializing in **modern web technologies**, including React.js, Node.js, Java EE, Symfony, and microservices architecture.

Strong **problem solver** with a focus on **system design, scalability**, and cloud deployments (AWS, Docker).

Main Skills

Fields

- Critical Thinking & Problem Solving
- Usability & Performance Optimization
- Software Architecture & System Design
- Software Development Life Cycle
- · Code Quality & Testing
- · Cloud Architecture & Scalability
- · Security & Authentification

Technologies

- Front-End: React.js, Redux, TypeScript, Storybook, SASS, MobX
- Back-End: Node.js, Express, Java EE/ Spring Boot, Symfony, RESTful APIs, Microservices
- Databases: MySQL, MongoDB, Oracle PL/SQL, Elasticsearch
- DevOps & Cloud: Docker, Git, AWS
- Testing & Tooling: Jest, PHPUnit

Languages French (Native), English (Fluent, PTE Academic 84/90, CEFR C1)

Experience

Full-Stack Engineer (Freelance)

Nov. 2023 - Today
Saint-Memmie
France

La Maison De L'Eleveur

- Enhanced front-end performance and user experience, boosting engagement and navigation, increasing conversion rates, and raising the Google Lighthouse score from 83 to 94.
- Upgraded back-end from Symfony 4 to Symfony 5, with extensive code refactoring, improving scalability, maintainability, and performance—reducing page load time by up to 75% (from 1200ms to 300ms).
- Overhauled email management system with enhanced security protocols and email signing, reducing email rejection rates by 80% and improving deliverability.

Champagne Carole Haudot

 Developed a custom configuration interface, transforming a previously static website into a more dynamic and manageable platform.

Saint Joseph College of Maasin, Leyte, Philippines

Took over and revamped an unfinished grading application, originally
developed by a student, addressing critical security flaws, extensive bugs,
and unstable code. Refactored key components, implemented new features, and
continue to enhance its functionality and security.

May 2023 - Oct. 2023

Melbourne, Victoria

Australia

Software Engineer (Frontend) – Specialist Experience Team

Canva

 Implemented infinite scroll on the user activity log page of a specialized internal web app, enabling troubleshooting specialists to access unlimited historical data. Optimized data fetching by handling microservices with and without pagination support, using React, and MobX.

- **Designed and developed a dynamic theme module** to enable seamless integration of seasonal and event-based decorations (e.g., April Fool's, Christmas) into the web application.
- Refactored the codebase, replacing deprecated components and services, and
 migrating internal API calls and components to their latest versions, resulting in
 improved stability, maintainability, and performance.
- **Increased test coverage** by implementing **comprehensive unit tests** for previously untested component presenters.
- Contributed to shaping an 18-month strategy to mitigate linear cost escalation due to user growth by leveraging machine learning, OpenAl language models, and usability enhancements for specialist tools.

Dec. 2019 - Apr. 2023

Saint Memmie

France

Full-Stack Engineer (Freelance)

La Maison De L'Eleveur

- Developed an automated quote generation system handling 39 different templates using Dompdf, enabling seamless creation and delivery of PDF quotes to customers. This freed up the workload of 2.5 team members, allowing them to focus on higher-value tasks.
- Initially built 8 custom product assistants using vanilla JS, allowing customers
 to easily order products like custom-cut metal sheets, pre-assembled kit doors
 for agricultural buildings, and gutters on the website. Later, rewrote one
 assistant using React and TypeScript for improved performance and scalability.
- Designed and implemented dynamic pricing modules, calculating product prices based on multiple factors, including custom specifications and quantity/ length.
- Introduced full responsiveness to the front-end, tweaked the UI for touchscreens, and optimized the website for tablets and smartphones, enhancing the mobile experience.
- Developed a custom order management system, allowing quotes to be converted into orders using a temporary token.
- Developed a tracking module that monitors unfinished orders at each step. If a customer abandons an order, a commercial representative is alerted to follow up via call or email.
- Enhanced website reliability by adding comprehensive test classes to prevent regressions.
- Refactored and upgraded the website from Symfony 3 to Symfony 4, improving performance, security, and maintainability.

Champagne Carole Haudot

• Designed and built a modern website featuring a simple online shop, leveraging React and React Redux for a smooth user experience.

May 2018 - Nov. 2019 Princeton, New Jersey United States of America

Software Developer (International Volunteer in Business Program)

Coface North America

- Maintained and enhanced policy management and collection back-office support applications, working with Java EE (Servlets, JSP) and Oracle PL/SQL.
- Contributed to solution architecture and design, optimizing system interactions and database queries for better performance.
- **Designed and developed interfaces** to facilitate seamless communication between different software applications.
- Developed a debugging tool for PDF generation, allowing the team to bypass the manual multi-step policy creation process by directly passing XML documents for PDF output. This significantly reduced debugging time and improved efficiency.
- Maintained and updated the development team wiki, ensuring accurate and up-to-date documentation.

- Refactored and maintained legacy code, improving maintainability and performance where possible.
- Strengthened application security following a penetration test, implementing
 a password encryption upgrade and a complete rework of the "Forgot
 Password" process, reinforcing security across the main application and related
 services.

Sep. 2017 - Apr. 2018
Saint Memmie
France

Full-Stack Engineer (Freelance)

La Maison De L'Eleveur

- Migrated the codebase from Symfony 2 to Symfony 3, refactored legacy code, and resolved compatibility issues, enhancing security and maintainability.
- Developed and optimized new website features using Symfony, MySQL, Bootstrap, and jQuery, enhancing user experience and streamlining online transactions.
- Assisted in setting up a secondary e-commerce website for the company's garden and home supply retail store. Created a fork of the existing platform and ensured a smooth technical foundation, allowing the client's team to take over its development.

Oct. 2014 - Aug. 2017 Lille France

Research And Development Engineer

CNRS / Université de Lille / CRIStAL Lab. / NOCE Team

- Published two papers in the IEEE International Conference on Advances in Social Network Analysis and Mining (ASONAM) 2016.
- Designed, built, and maintained a distributed platform capable of collecting and processing up to 2 million tweets per day, with a 2-year full data retention policy, powered by Elasticsearch and TensorFlow.
- Developed secured internal APIs for remote control of the distributed platform and efficient data retrieval, implementing JSON Web Token (JWT) authentication.
- Built an interactive and user-friendly dashboard to visualize processed data for third-party users, using an asynchronous stack with AngularJS, Node.js, and Express.js, with JWT-based authentication for secure access.
- Researched and developed software prototypes for sentiment analysis, gender detection, and geolocation extraction from tweets, using simple algorithms and recursive neural networks.

Jun. 2014 - Sep. 2014

Vouziers

France

Full-Stack Engineer

La Maison De L'Eleveur

- Built a fully custom e-commerce website to replace their previous WordPressbased solution, which had excessive, unnecessary options. The new system provided a streamlined, easy-to-use configuration panel tailored to their specific needs.
- Designed the UI in Sketch, exploring three different design approaches skeuomorphism, abstract, and a hybrid of both—before implementing the final version.
- Rebuilt the entire website from scratch in just 3 months, using Symfony 2, MySQL, Bootstrap, and jQuery, improving performance, maintainability, and flexibility.
- Revamped the online product catalog (1,500+ references) and introduced an
 intuitive UI for configuring custom-tailored steel sheets, reducing the number
 of page loads needed to reach a product from 10 to just 3, significantly improving
 user experience.

Mar. 2013 - Feb 2014

Lille France

Research And Development Engineer

CNRS / Université de Lille / CRIStAL Lab. / NOCE Team

- Designed and built custom-made bracelets that communicated with each other using Arduino Nano, Xbee modules, RFID chips, and other components, enabling interactive experiences.
- Developed custom contactless quiz terminals using Arduino Mega, Ethernet shields, and RFID shields, enhancing user engagement and interactivity.
- Created a central control system using Java and MongoDB to remotely manage, configure, and log usage of the custom devices.
- Built a data visualization dashboard with Node.js, Express, and MongoDB, allowing stakeholders to filter and interpret usage data in a meaningful way.
- Deployed and maintained the custom devices and control system at the Museum of Fine Arts in Tourcoing, France, and conducted user experience evaluations to assess performance and gather feedback.



Explore more of my work and side projects at giovanetti.fr/resume

Education

Master's Degree in Computer Science, Université de Lille, France (2013)

• Exchange program at TU Graz, Austria (2012)

Links

- n giovanetti.fr
- github.com/ganoninc
- in linkedin.com/in/romainjg
- </> leetcode.com/romainjg