Romain Giovanetti

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Profile

Full-Stack Engineer with 12 years of international experience building user-centric web applications.
Passionate about clean code, performance, and thoughtful system design, with hands-on experience across monolithic systems and cloud-native microservices.
Specialized in React, Node.js, Java/Spring, Symfony, and containerized deployments on AWS (Fargate, Terraform, Docker).

Main Skills

Core Skills

- Full-Stack Web Development
- Software Architecture & System Design
- End-to-End Ownership
- Performance Optimization & Scalability
- Cloud & Distributed Systems
- Microservices Architecture
- Code Quality, Testing & Maintainability

Technologies

- **Front-End:** React.js, TypeScript, Redux, MobX
- **Back-End:** Node.js, Java / Spring Boot, Symfony, Microservices
- **Databases:** MySQL, PostgreSQL, Oracle / PL/SQL, MongoDB, Elasticsearch
- **Cloud, DevOps:** AWS (Fargate, S3, CloudFront), Docker, Terraform
- **Observability & Monitoring:** OpenTelemetry, Prometheus, Grafana
- **Testing & Tooling:** Jest, Junit, Mockito, PHPUnit, Python

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

Experience

Nov. 2023 - Today
Saint-Memmie
France

Full-Stack Engineer (Freelance)
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)**.
- Redesigned the email system with **SPF, DKIM, and DMARC** implementation, improving security and **reducing email rejection rates by 80%**.
- Decoupled email processing using **message dispatching**, **partial asynchronous handling**, and a **retry queue**. Built space-efficient custom message handlers to ensure **reliable delivery within shared hosting constraints** (Apache + PHP, no native background workers).

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**, **OpenAI 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.

Previous Experience

Software Developer (VIE Program) | Coface North America
May 2018 - Nov. 2019 | Princeton, New Jersey, United States of America

Full-Stack Engineer (Freelance) | La Maison De L'Eleveur / Champagne C. H.
Sep. 2017 - Apr. 2018 | Saint Memmie, France

R&D Engineer | **CNRS / Université de Lille / CRIStAL Lab. / NOCE Team**
Oct. 2014 - Aug. 2017 | Lille, France

Full-Stack Engineer | La Maison De L'Eleveur
Jun. 2014 - Sep. 2014 | Vouziers, France

R&D Engineer | **CNRS / Université de Lille / CRIStAL Lab. / NOCE Team**
Mar. 2013 - Feb. 2014 | Lille, France

Publications

Computer architecture model for flexible social network analysis
Giovanetti, R. & Lancieri, L | 2016 ASONAM 2016

Multilevel exploration in Twitter streams
Giovanetti, R. & Lancieri, L | 2016 ASONAM 2016

Education

Master's Degree in Computer Science
Université de Lille, France (2013)
- Erasmus Exchange program at TU Graz, Austria (2012)

Links

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🐙 github.com/ganoninc   </> leetcode.com/romainjg