

Álvaro Rausell Guiard

Senior Software Engineer

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Profile

A full-stack software engineer with extensive experience in cloud infrastructure and backend development. Proficient in several languages with a proven ability to deliver high-quality solutions across diverse technology stacks.. Specialized in building and maintaining scalable services on cloud platforms, enhancing security by remediating vulnerabilities, and optimizing system performance through low-level, cross-language integrations. Passionate about open-source and contributing to developer communities.

Key Skills

Category	Skills
Languages	C++17, C#, JavaScript/TypeScript, Java, Python 3, .NET, Ruby (beginner), Rust (beginner)
Frameworks	Node.js/Deno, React.js, Ruby on Rails
Infrastructure	Azure, Jenkins, Travis CI, GitHub Actions, NPM Ecosystem, Docker, Kubernetes
Interpersonal	Technical Leadership, Customer Engagement, Teamwork, Mentorship

Experience

Software Engineer, GitHub Codespaces

March 2025 - Present

- Contribute to the development and maintenance of GitHub Codespaces, working across the full stack to deliver a seamless cloud development experience.
- Deploy and manage infrastructure on Microsoft Azure, rolling out critical infrastructure and service changes written in C#.
- Enhance security by identifying and remediating vulnerabilities within the TypeScript codebase.
- Develop and maintain frontend components using Ruby on Rails and React, improving user workflows and experience.

- Serve as an active maintainer for the devcontainers open-source organization, contributing to the specification and related tooling.
- Communicate clearly in in GitHub issues and Discussion posts after meeting project milestones.

Software Engineer, IBM App Connect Enterprise

September 2021 - March 2025

- Adapted an on-premise runtime for a high-performance iPaaS offering, focusing on feature parity and defensive programming.
- Led the design and implementation of complex CI/CD pipelines for the internal npm ecosystem, driving cross-team collaboration for continuous improvements.
- Enhanced system performance by refactoring complex JavaScript routines into C++ and leveraging V8 and JNI APIs for low-latency interoperability between languages.
- Acted as a key technical contact during critical incident response, engaging directly with enterprise customers to resolve complex issues and ensure business continuity.
- Authored technical blog posts and presented new product features at three major IBM conferences.
- Contributed to IBM's intellectual property portfolio with one patent filing in the pipeline.

Cloud Infrastructure Engineer, IBM App Connect Enterprise (Placement)

June 2019 - August 2020

- Maintained and improved cloud infrastructure, collaborating with developers to meet build environment requirements.
- Refactored legacy Perl testing codebases to Python 3 and developed a vulnerability scanner for npm dependencies.
- Introduced and championed the adoption of Ansible for automated machine setup, significantly improving team efficiency.

Education

King's College London - London, UK

2017 - 2021

- **BSc. Computer Science with a Year in Industry (Artificial Intelligence)** - First Class (Hons.)
- **Dissertation:** Trained self-driving vehicles in a virtual environment using a bespoke genetic algorithm integrated with the game *Euro Truck Simulator 2*.