

Julien RICHARD

Backend software engineer

Innovative and detail-oriented backend software engineer with a strong background in Python, Go, and cloud-based solutions. Passionate about optimizing infrastructures and developing scalable applications. Proven track record in leveraging advanced technologies to enhance performance and streamline processes.

CONTACT :

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GitHub : [jurichar](https://github.com/jurichar)
Portfolio : jurichar.vercel.app
Languages : french, english

TECHNICAL SKILLS :

Backend: Python (Django), Go, NodeJS

DevOps: Docker, Kubernetes, Jenkins, Minio

Frontend: TypeScript/JavaScript, React/NextJS, Tailwind, SASS

Others: C/C++, Java, pSQL, GraphQL, AWS.

EDUCATION :

42 SCHOOL PARIS, MSc Digital Architect (Mobile & Web Development) | 2020 - 2023

UNIVERSITY OF PARIS, Diploma in Computer Sciences | 2017 - 2019

PROFESSIONAL EXPERIENCE :

BACKEND & DEVOPS ENGINEER

ExaactRobotics, Paris | 2023

Infrastructure Optimization: Enhanced machine learning pipelines by transitioning to cloud-based solutions (**Python, Docker, Kubernetes, Azure**), boosting data processing speed by 30x.

Tool Development: Created internal tools in **C++** for rapid environment setups using **Kubernetes, Ansible, and PostgreSQL**.

EMBEDDED SYSTEMS ENGINEER

AGCO, Paris | 2022

laC Framework: Developed an Infrastructure as Code (laC) framework in **C++ and Python**.

Software Integration: Integrated software for a connected vehicle using a proprietary **C++/Qt framework**, focusing on interface design and BUS messages management.

FRONTEND ENGINEER

BETC Fullsix, Paris | 2024

Immersive Web Projects: Contributed to advanced frontend projects using WebGL, creating dynamic web solutions with **Next.js, Nuxt.js, Tailwind and libraries**.

Collaborations: Worked with prominent clients to deliver bespoke web experiences from **CMS like Drupal, Prismic and Strapi**.

EDUCATIONAL ENGINEER

Colombbus & Play'nProg, Paris | 2018 - 2022

Managed programming and robotics courses, primarily in **JavaScript**, for educational purposes.

PROJECT HIGHLIGHTS :

Infrastructure Optimization and Deployment for ExaactRobotics

Optimized infrastructure for machine learning applications using Docker, Kubernetes, and Azure. Streamlined data processing and model deployment with ZenML and Minio. Responsibilities included Python code optimization and SQL request enhancements.

Development of an Embedded System for AGCO

Developed the integrated interface for a connected vehicle software using Qt (C++). Managed bus messages and implemented the graphical user interface, collaborating in an agile team environment.

R&D IaC Internal Tool

Automated the creation of complex environments using Kubernetes, Ansible, and PostgreSQL. Developed a C++ backend and a Spring Boot API, streamlining configuration processes for rapid environment setups.

Full Stack Development of a Social Network

Pioneered a modern stack featuring Next.js, leveraging Vercel and NeonDB for cloud infrastructure. Played a pivotal role in defining the technical framework and delivering a robust social networking platform.

Backend Development of a RSS Feed Aggregator

Developed a comprehensive RSS feed aggregator with a robust web server and RESTful API using Go's libraries. Managed user data aggregation and ensured a scalable solution.