Pablo Garcia Rius
Software engineer

pablogrius@gmail.com   LinkedIn   GitHub   Portfolio Web

WORK EXPERIENCE

TK Elevators   **Madrid, Spain**

Data engineer (internship)   *Jun 2024 – December 2024*

- Developed performance indicators for the OSH department, using large datasets to analyse progress over time, enabling managers to prioritise areas needing improvement.
- Developed safety analysis reports for country managers using Power BI, visualising incident trends, and helping prioritise preventive measures across high-risk zones.
- Streamlined data integration for incident reporting using Node.js and APIs, automating updates and providing continuous data access to managers, reducing delays in safety analysis.

NTT Data   **Madrid, Spain**

Software engineer (internship)   *September 2023 – May 2024*

- Developed a full-stack project to streamline sensor data using Azure IoT, Node.js, and React, enabling real time interaction and visualisation in a showroom.
- Developed the frontend for Renfe's real-time data visualisation app using React and TypeScript, improving risk management and alerting supervisors to potential safety issues.
- Developed CI/CD pipelines with GitHub Actions, automating deployments and tests, cutting deployment time in half and reducing manual labour in the release process.

EDUCATION

Kingston University   **London, United Kingdom**

MSc Software engineering with management   *January 2026*

- Focused on agile project development, software architecture design, business management, software quality engineering, and conducting independent research through a project dissertation.

University Carlos III   **Madrid, Spain**

BSc Computer science engineering   *June 2024*

- Focused on computer science principles, software engineering project's lifecycle, software architectures, data structures optimisation and algorithm design and optimisation.

University of New South Wales   **Sydney, Australia**

BSc computer science engineering (exchange)   *January 2023 (6 months)*

- Participated in an exchange program during my undergraduate studies, which broadened my international perspective and enriched my understanding of global software engineering practices.

PROJECTS

SM Ninja   *Python, TypeScript, Java, Next.js, Spring Boot, PostgreSQL, AWS*   *January 2025*
Supermarket price comparison tool

- Designed and implemented a web scraping tool in Python to extract product data from multiple supermarket websites and store it in a PostgreSQL database hosted on AWS RDS.
- Built a RESTful API using Java and Spring Boot to handle client requests, query the PostgreSQL database, and return filtered product data with custom pagination.
- Developed a responsive frontend application using TypeScript and Next.js that interacts with the backend API to display product information in a user-friendly interface, enabling users to filter and compare prices across supermarkets.

SKILLS

- Project management: AGILE methodologies (Scrum, Kanban), PRINCE2, AgilePM, Jira, Confluence
- Frontend development: React, Next.js, Angular, Astro, HTML5, Tailwind CSS, Responsive Design
- Backend development: Node.js, Spring Boot, RESTful APIs
- Programming languages: JavaScript, TypeScript, Python, Java, C
- Tools & Technologies: Git, Docker, CI/CD pipelines, AWS (RDS, EC2, S3), Postman
- Languages: English (C1 – Professional Proficiency), Spanish (Native)

AWARDS

2nd Place – Linked Open Data Core | *Python, JavaScript, React, Node.js, Linked Open Data*   *September 2024*

- Developed a Linked Open Data dataset to enhance the connectivity of socioeconomic data for Madrid's municipalities, creating custom indicators for improved cross-comparison. Built an interactive map application using React for visualization.