Giuseppe Barillari
Full-stack software engineer
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PROFILE

Experienced full-stack software engineer specializing in **TypeScript** and **React**. Proficient in building data-driven UIs with **Redux Toolkit/RTK Query**, APIs, Databases, and **AWS**. Strong collaborator in globally distributed teams, adept at **CI/CD** and automated testing and deployment.

TECHNICAL SKILLS

- JavaScript/TypeScript
- React
- NodeJS
- Python
- Rust

- SQL Databases
- Docker
- Cloud (AWS, GCP)
- Unix systems
- C

EXPERIENCE

S&P Global, Financial Risk Analytics   London, UK
Associate Engineer, Full Stack   September 2024 - Current

- Full-stack development of a financial risk analytics platform using **React**, **TypeScript**, **Redux Toolkit/RTK Query**, **Node.js**, **ExpressJS**, **PostgreSQL** and **AWS**.
- Built high-performance interactive charting and tabling components to relay calculation results to end users, using **HighCharts**, **TanStack Table** and **Plotly**.
- Designed and implemented a robust **CI/CD testing infrastructure** using **Jest**, **Playwright**, **Python** and **Bash**, enabling automated **unit** and **end-to-end tests**, streamlining deployments, and increasing **production stability**.
- Collaborated across 4 time zones with product, QA and DevOps, leading regular code reviews and pair programming sessions.

S&P Global   London, UK
Software Engineer Summer Intern   June 2023 - August 2023

- Led the engineering of a **hierarchical data manipulation algorithm** for risk reporting, using **SQL** and **Node.js** to support querying based on end-user defined requirements.
- Full-stack development of award-winning financial risk management SaaS, leveraging **React**, **SQL**, **AWS**, **Node.js**, **Python** and **SCSS**.

Sky (Comcast Corp.)   Osterley, London, UK
Software Developer Summer Intern   July 2022 - August 2022

- Developed and deployed two internal web applications designed to broaden employees' skills.
- Full-stack development using **Docker**, **React**, **Java Spring Boot**, **ExpressJS** and **SQL**.

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LANGUAGES

- **English** Fluent - IELTS Academic (British Council - Cambridge University) 8.0 Overall band.
- **Italian** Native speaker.

EDUCATION

University of York   **York, UK**
MEng Electronic and Computer Engineering   **October 2020 - June 2024**

Classification: 1st class honours (with distinction) 82% overall.

Dissertation (81%): "*Visualising Many-Core Systems*". Developed a portable **GUI** program, written in **Rust** and **React**, that generates **SVG** representations of a Many-Core system from user-provided system simulations.

Achievements: Yorkshire Philosophical Society Malden Owen Award for the best graduating student on an MEng programme.

Relevant modules:

- LAN & Internet Protocols: 95%.
- Algorithms & Numerical Methods: 88%.
- Machine Learning and Computational Intelligence: 76%.
- Systems Programming for ARM: 80%.

Activities:

- Nouse (student newspaper): Technical director. Designed and developed the society's website and CMS. Winner of the 2025 Student Publication Association "Best Digital" award.
- York Engineering Society: Treasurer and website administrator. Winner of the IET 2022 Young Professionals Hackathon. Researched and proposed an implementation to offset data centres' CO_2 emissions.
- Student Ambassador: Provided insights regarding life as an engineering student to hundreds of visiting prospective university students.
- Course Representative: Elected by peers to serve as the voice of the Electronic Engineering cohort in the student-staff liaison committee for three consecutive years.