Giuseppe Barillari
Full stack software/electronic engineer

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About me

I am a full stack software engineer based in York, UK. I've been fascinated by complex and distributed systems since childhood and developed an interest in embedded systems in my teens. My non-technical interests are weightlifting and motorsports.

Experience

S&P Global - Market Intelligence, Software Developer Summer Intern | June 2023 - August 2023

Full stack development of various web applications in the financial risk analytics sector. Developed and deployed an algorithm for data reporting with end-user-defined hierarchy constraints. The web applications stacks included Vite, React, SQL, NodeJS and an in-house components library styled with SCSS.

IET Young Professionals Hackaton 2022 Winner | October 2022

Cooperating with three other fellow students, the team proposed a solution to offset data-centre carbon impact via algae-based sequestration. Read the IET press release here 🔗 .

PET School (UoY), Student Ambassador | October 2021 - Present

Provide insight regarding what's it like to be enrolled in an engineering degree to hundreds of visiting prospective students of the PET School.

Sky, Software Developer Summer Intern | July 2022 - August 2022

Full stack development and deployment of two internal web applications designed to broaden employees' skills. The two stacks included Docker, ReactJS, Java SpringBoot and ExpressJS.

TSYS, DocOps Cloud Engineer Summer Intern | July 2021 - September 2021

Designed and implemented the DocOps flow used by the Knaresborough branch. The job focused on Python and Docker during the prototyping stage and AWS and GCP during the deployment phase. Thousands of employees across different branches and departments are now using a product derived from the proposed implementation.

Education

MEng Electronic and Computer Engineering | 2020-2024

University of York, in progress.

- **Year 1:** 91% overall
- **Year 2:** 84% overall
- **Year 3:** 82% overall

High School / A Levels Equivalent | 2015-2020

Passed the Esame di Stato 🔗 with a final grade of 96/100. The subjects I performed best in were Mathematics (9/10), Physics (9/10) and English literature and language (10/10).

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Technical skills

- **C** $\sim$ 4 years
- **Python** $\sim$ 4 years
- **Java** $\sim$ 6 years
- **Javascript/Typescript** $\sim$ 2 years

- **SQL** $\sim$ 2 years
- **Docker** $\sim$ 3 years
- **Unix** $\sim$ 6 years
- $\LaTeX$ $\sim$ 4 years

Languages

- **English** IELTS Academic (British Council - Cambridge University) 8.0 Overall band

- **Italian** Native speaker

Volunteering

- **Nouse** ↗ Technical Director
- **ShockSoc** ↗ Treasurer

- **IET NY** ↗ Member

Projects

Nouse Website

Migrated front-end website implementation from old-fashioned PHP with templating to modern SSR/SSG hybrid pattern. Continuously improving infrastructure as the website serves over 1.5 million requests per month.

ShockSoc Website

Revamped the society's website using emerging web technologies such as Astro, SolidJS, and GitHub actions, providing a simple CMS for the society's press and publicity officer through a Firebase-managed authentication flow.

LineageOS

Officially maintained the LineageOS ↗ Android distribution for the Xiaomi Mi Note 2. Now discontinued.

Miscellaneous

Many other projects in various areas, including PCB design, React Native, Electron and Android applications.