

JOSEPH DA COSTA

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Final-year Computer Science student at QMUL with a First-Class average and a year of industry experience delivering scalable Java microservices and full-stack features at Amplifi Capital. Strong track record in building reliable, test-driven systems and improving performance. Passionate about distributed systems and ethical AI, with hands-on projects in deep learning, game development, and blockchain. Eager to contribute to impactful engineering teams solving real-world problems.

EXTRACURRICULAR

- Developed a blockchain-based payment system using Stellar SDK as part of a hackathon, enabling 50+ mock transactions for underbanked users.
- Led a team of three to pitch a proposal tackling smartphone waste, earning positive feedback from industry mentors.
- Reading research on quantum computing, astronomy, while keeping up with new tech developments.
- Enjoy piano, electric guitar, and gym training as creative and physical outlets.

EDUCATION

Queen Mary UoL (BSc) Computer Science Graduating 2025

- Grade 1:1 (Expected)

A-Levels, Stoke Newington Sixth Form College, 2019 - 2021

- Mathematics (A*), Economics (A*), Physics (A)

TECHNICAL SKILLS

- Programming: Python, Java, JavaScript, C#, SQL
Frameworks/Tools: React Native, AngularJS, Spring Boot, TensorFlow, Git
Cloud/Databases: Google Cloud, MongoDB
Other: RESTful APIs.
- Developed a deep learning model in Python (TensorFlow) for emotion classification from eye-tracking data, achieving 75% accuracy using k-fold cross-validation. Explored applications in mental health diagnostics.
- Led a team of four to build a Unity survival game with C#, featuring enemy AI, crafting systems, and customisable controls. Delivered a playable prototype in 8 weeks.
- Also evaluated pre-release titles such as 'You Suck at Parking' and 'Echoes of the End', providing gameplay and UX feedback alongside industry professionals.
- Acquired in-depth knowledge of desktop hardware through building, upgrading, and customising PCs, including troubleshooting hardware and software compatibility issues.

EXPERIENCE

Software Engineer Placement, Amplifi Capital, 09/2023 - 09/2024

- Developed and deployed scalable Java microservices using Spring Boot, creating RESTful APIs to support 10,000+ daily transactions.
- Wrote unit and integration tests, achieving 90%+ code coverage and reducing post-deployment bugs by 10%.
- Built responsive front-end features in React Native and AngularJS, improving UX and boosting SEO performance by 15%.
- Collaborated with a team of five engineers in daily Agile stand-ups to prioritise tasks, resolve API integration issues, reducing sprint delivery time by 20%.

Assistant Admin Intern, Roman Catholic Diocese of Southwark and Westminster, 05/2022 - 08/2022

- Member of the ICT team to provide phone support and customer service for over 500 parishes and resolved 50+ support tickets.
- Developed imaging skills and learned to image laptops and computers by installing internal encryption software used by the parishes.
- Acquired an understanding of the operation of Domain and active directories in a corporate environment.