

JOSEPH DA COSTA

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Queen Mary University of London Computer Science graduate (1:1) with expertise in Python, Java, JavaScript, C#, and SQL. Delivered scalable Java microservices and React Native front-end features at Amplifi Capital, improving UX and SEO. Managed Kubernetes clusters at Hiro Capital. 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 University of London 2025

- BSc Computer Science, First-Class Honours (1:1)

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

- Built and deployed scalable Java microservices with Spring Boot, delivering RESTful APIs for 10,000+ daily transactions.
- Wrote unit and integration tests, achieving 90%+ code coverage and reducing post-deployment bugs by 10%.
- Developed responsive front-end features with React Native and AngularJS, enhancing UX and increasing SEO 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%.

Technical Contributor, Hiro Capital, 07/2025 - 08/2025

- Built and managed a Kubernetes cluster using Sidero Omni and Oracle Virtual Machines, deploying a microservice application to verify cluster functionality and reliability.
- Facilitated onboarding for multiple companies by testing SaaS products and providing actionable feedback to streamline development processes.
- Achieved a 40% build size reduction for multiple games through shell script asset compression, ensuring cross-platform compatibility and high performance to meet requirements for platforms like Facebook.