

George McCarron

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Customer-focused full-stack software engineer based in London with experience designing, building and deploying cloud-native applications in startups, scale-ups, and enterprise

Employment

Feb. 2025 - Present **Orbital - Senior Software Engineer**

Jul. 2023 - Feb 2025 **Orbital - Software Engineer**

London, UK Built Orbital Copilot from scratch - an agentic AI assistant to automate the work of reviewing and reporting on real estate legal documents - working on the MVP in a super lean team directly alongside the CTO and VP AI. Constantly used feedback from users to inform product and technical decisions as we found product-market fit.

Successfully launched Orbital Copilot in the UK, growing the product to ARR in excess of £3.5million. Following successful launch and 3.5x YoY revenue growth, I was responsible for rapidly tailoring the product to the US market with new functionality based on feedback from prospects and our in-house Legal Engineers. These efforts led to successful global expansion and acquiring a number of large US law firm customers.

Produced and reviewed technical designs for and then collaborated on implementation for core features; such as our tailored reporting, AI verification workflows, and multiplayer collaboration using TypeScript/React on the frontend and Python/FastAPI/Postgres on the backend. Alongside this, I contributed to scaling our underlying tech with a growing team and ~7x growth in MAU in the last 12 months.

Took ownership of building a reusable component library for the app, working closely with designers. This massively improved our development velocity, and consistency in look-and-feel of the product. Making the decision to invest in this early has allowed us to innovate at pace over the following months and years.

Tasked with improving our ability to understand how users interact with the product, I implemented Amplitude for product analytics in Orbital Copilot which allowed us to make more data-driven decisions based on real user insights. The roll-out was a success and Amplitude was later adopted in other Orbital products.

Hired for engineering, design, and product roles, growing headcount from ~5 to 30+ across 5 squads to deliver an ambitious product roadmap. Line managed engineers, accountable for their personal growth and performance.

Feb. 2022 - Jul. 2023 **ClearScore - Frontend Engineer**

London, UK Worked as a full-stack TypeScript developer, using React and Node.js. Released changes to production multiple times a day to serve over 20 million users worldwide whilst ensuring compliance with complex financial services legislation.

Led the technical design and implementation for a number of initiatives to improve reliability & scalability and reduce complexity of our core marketplace architecture, collaborating across multiple squads and engineering disciplines.

Played a key role in improving the speed and resilience of the CI/CD pipeline for our micro-frontend monorepo, based on Jenkins, Spinnaker and AWS. Introduced Nx to optimise task execution leading to improved feedback cycles and release cadence.

Independently built a UI to simplify interaction with some of the in-house developer tooling that we had at ClearScore. I presented the app to the engineering function and its use gained significant traction, with other engineers contributing to it as well.

Supported hiring by reviewing technical tasks and conducting technical interviews for frontend candidates, as well as conducting behavioural interviews across the business. Mentored, coached and paired regularly with junior developers to support their growth.

Sep. 2020 - Feb. 2022 **Capital One - Software Engineer**

London, UK

Built well tested, performant, accessible web applications using React as well as Node.js/Express backends-for-frontends. Deployed on AWS and was responsible for production support and ongoing maintenance.

Led re-architecture of existing serverless microservices centred around AWS Lambda, resulting in significant cost reduction and improved performance.

Regularly contributed to our in-house enterprise platform for CI/CD, based on Jenkins & Terraform; removing pain-points for engineering teams globally across the enterprise.

Took on a technical leadership role leading a cohort of software engineering interns working on enhancing our external hackathon platform. Provided mentorship and guidance on both low-level implementation and high-level solution design.

Spent time working in a mobile team working on a complex iOS codebase utilising both Swift and Objective-C. Migrated existing Objective-C code to Swift to reduce maintenance overhead and allow faster development of features moving forward.

Jul. 2019 - Sep. 2019 **Capital One - Software Engineering Intern**

London, UK

Built a public API for use at hackathons as part of a large collaborative team, where I was the sole developer for a web app for profile management and authentication.

Contributed regulatory-driven features to a large and complex business-critical React/Redux web application used by hundreds of customer facing agents daily.

Presented a business case to engineers and management for migrating E2E tests from Protractor to Cypress, resulting in more maintainable code and reduction in flaky tests, ultimately reducing cycle time.

Sep. 2017 - Jul. 2019 **MyTutor - Private Tutor (Self Employed)**

Remote

Delivered Computer Science, Physics, and Maths lessons tailored to individual students' needs helping them to achieve or surpass their target grades in exams.

Education

Oct. 2017 - Jul. 2020 **University of Nottingham**

Nottingham, UK

BSc (Hons) Computer Science; First Class

Sep. 2015 - Jun. 2017 **Dartford Grammar School Sixth Form**

Dartford, UK

International Baccalaureate Diploma; 40 Points

Sep. 2010 - Jun. 2015 **Dartford Grammar School**

Dartford, UK

12 GCSEs; 9A*, 3A

Public Engagement

Conference Talk **JSDayIE 2023 - Building Fast, Maintainable JavaScript Monorepos with Nx** ([Link](#))

Sep. 2023

Dublin, Ireland

Invited to give a talk explaining how Nx can help to manage a monorepo and the benefits that it brings to improve developer productivity and the speed of delivery.