

Daniel Casey

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Personal Statement

Senior Engineer & Test Lead owning AWS migration strategy, tech-wide test architecture, and mobile platform quality; I mentor engineers, standardise reusable frameworks, and bridge architecture decisions with pragmatic, high-leverage test design.

Core Stack

Gatling, Postman, Rest Assured, Cucumber, Wiremock, AWS, Java, SpringBoot

Professional Experience

Capital One – Senior Engineer (Manager IC)

Feb 2025 – Present

- Directed test strategy for a big-bang AWS Edge migration (88 endpoints; ~60K req/min) with zero critical regressions and sustained performance
- Owner of UK tech Core Testing (Acceptance and Performance): defined clear acceptance scope, layering, and reuse patterns; added VisualVM thread diagnostics to cut analysis time from 8+ hours to minutes. Worked with product to encourage Non Functionals to be considered the same as Functional requirements.
- Created and rolled out Question-Based Testing — linking requirements to executable tests at inception, shifting validation left, surfacing gaps early, and tightening Product–Engineering communication.
- Established nearest neighbour, mutation, headless client, and reusable library-based test practices. Raising early integration defect discovery, reducing test implementation time by ~50%, and reducing test duplication by ~30%.
- Scaled engineering capability via mentoring, coaching, structured knowledge sessions, and code pairing on challenging problems.

Capital One – Manager IC (Stretch)

Jan 2024 – Feb 2025

- Mobile Tier 2 AWS Migration Tech Lead: Defined high-level plans, system designs, requirements, and timelines for feature migrations.
- Built APIs to maintain project timelines (1 month gained) and quality.
- Team of Teams Test Lead: Led quality initiatives, defined new processes for Lambda memory allocation, and introduced efficient testing approaches.
- Defined the SDET role for UK Tech and aligned automated testing strategies with enterprise practices.

Capital One – Principle Associate

Jan 2022 – Jan 2024

- Mobile Domain Owner for Quality Engineering: Developed yearly mobile QE roadmaps, led the Community of Practice, mentored QEs, and delivered a 3 year plan for a stable automated state.
- Implemented automated testing methodologies for scalable regression suites.
- Defined UK Mobile Lambda testing approach and introduced Fargate hosting for Wiremock to aid in Lambda testing.
- Lead Engineer for Modernise Identity and Mobile Outcome Team: Strategically prioritized migration features, developed tier-based data categorization for features, and led technical design improvements.

Capital One – Senior Associate

June 2020 – Jan 2022

- Defined and implemented Mobile AWS Pipeline Testing strategy, optimizing deployment and expanding coverage.
- Lead tester for Mobile Team: Identified and resolved critical performance issues, mentored new starters, and developed orchestration components.
- Created EC2-based Orchestration Template Generator, reducing service setup time from weeks to minutes.
- Ensured On Premise Test Environment stability, automated daily test suites, and revamped Postman collections.

FDM Group – Contracted to Capital One

June 2018 – June 2020

- Transitioned to independent Quality Engineer, gaining expertise in UI, acceptance, and non-functional testing.
- Owned and improved Device Support Policy, migrated to OS Support Policy, and introduced X-Ray testing for enhanced manual test visibility.

Education and Certifications

- BSc (Hons) Astrophysics, 2:1
- ISTQB Certified

Extras

- [Quantization of 7B LLM Models to determine effects on output](#)
- [Used ML to create Facial Recognition Magic Mirror](#)
- [Wrote my own Neural Network - Just math](#)
- [Personal Website](#)