

Mark Platts

Melton Mowbray UK	07789196238	markplattsprogramming@gmail.com	linkedin
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Profile

- Hybrid Software Developer / SDET with strong experience across backend development, QA automation, and DevOps-adjacent engineering. I design and build clean, maintainable, production-ready software in Go, Python, Java, and TypeScript, and have created end-to-end automation frameworks, data-management tooling, and CI/CD integrations that improved release confidence and accelerated feedback cycles.
- I specialise in understanding and improving full-system behaviour, from microservices and data flows to CI pipelines, automated testing, and environment orchestration. I've acted as the technical owner for automation suites, internal QA services, and tooling used across multiple teams. Strong experience collaborating with Development, QA, Architecture, and DevOps to deliver robust, scalable solutions.
- Seeking: SDET, QA Automation Engineer, or Developer roles where I can combine software engineering with testing expertise, ideally programming-heavy roles with scope to contribute to design, architecture, and quality engineering.

Key Skills

Core Languages & Tools: Go · Python · Java · JavaScript/TypeScript · MySQL · Bash · gRPC · Kafka

Automation & Testing: Playwright · Cypress · GoDog · Pytest · K6 · CodeceptJS · Unit · Integration · Component · E2E · Performance · Regression · Smoke · Test architecture · BDD · TDD · Test-data design

CI/CD & DevOps: GitHub Actions · Bitbucket Pipelines · Docker · AWS (EKS, S3, Secrets, RDS) ·

Kubernetes (deployment files, kubectl monitoring & troubleshooting) · Grafana · Datadog

Practices: Agile (Scrum & Kanban) · Process Refinement · System design thinking · Code reviews ·

Documentation · Cross-team collaboration · Mentoring · Automation strategy · Full-stack awareness

Experience | Sep 2022 - Sep 2025

Metric Gaming - *Software Developer / QA Automation Engineer*

Hybrid role spanning development, automation engineering, QA strategy, and DevOps tasks.

- Software Development
 - Designed and built backend microservices in Go, Java, and Python using gRPC, HTTP, Kafka, and MySQL.
 - Maintained a large legacy Java monolith and contributed to the organisation's migration to a cloud-native microservice architecture on AWS + Kubernetes.
 - Developed internal tools and services for QA and development teams, including data-manipulation utilities and environment-state management systems.

- Regularly reviewed developer PRs, contributed to code quality improvements, and participated in architectural discussions.
 - Worked within both Scrum and Kanban delivery models during different projects.
- Automation Engineering / SDET Responsibilities
 - Designed the automation strategy for the organisation and authored processes enabling seamless integration of automated tests into the SDLC.
 - Built and maintained automated test suites across multiple layers (component, service-level, E2E).
 - Implemented automated test frameworks in Go, Python, and TypeScript, and owned key automation repositories.
 - Developed large-scale mock-data systems, configuration tools, and reliability-testing utilities.
 - Mentored QA analysts and Automation engineers in modern testing practices and coding skills.
 - Led cross-team initiatives to improve test coverage, reduce manual work, and increase environment stability.
- DevOps-Adjacent Contributions
 - Maintained Kubernetes deployment definitions; used kubectl to monitor pods, debug issues, and manage service configurations.
 - Managed secrets, S3 buckets, and RDS instances in AWS.
 - Designed pipeline logic and integrated automated tests into Bitbucket Pipelines and later GitHub Actions.
 - Authored Bash scripts to speed up repetitive tasks across CI environments.

Mark Platt's Tutoring – Private Tutor | 2018 - 2021

- Private Tutor delivering tailored STEM education up to early undergraduate level.
- Strengthened communication, mentoring, and the ability to explain complex technical concepts clearly.
- Designed bespoke learning materials, curriculums, and problem-solving frameworks.

Projects & Self-Development

- Currently completing three professional-level Codecademy programmes:
 - Full-Stack Engineer
 - Computer Science Foundations
 - Machine Learning
- Ongoing study of advanced Kubernetes, Infrastructure-as-Code fundamentals, and broader system-wide understanding.

Education

MSc Mathematical Physics (Merit), University of Nottingham (2017)

BSc (Hons) (2:1) Natural Science – Physics, Open University (2015)