Perry Smith-Moss

Senior Full-Stack Software Engineer (TypeScript / React / Node.js / Next.js)

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PROFILE

Senior Full-Stack Software Engineer with **5+ years** of experience building and scaling revenue-critical platforms. I focus on **distributed systems**, **event-driven architecture**, and helping engineering teams move fast without breaking things. Proven track record of delivering commercial impact, including a **12% conversion uplift** and processing **£200k+ in daily transactions**.

TECHNICAL SKILLS

Core: TypeScript, Node.js, React, Next.js (App Router), JavaScript
Infrastructure: AWS, Azure, Docker, Kubernetes, Terraform, GitHub Actions
Frontend & DX: Tailwind CSS, React Query, Storybook, Chromatic, NX Monorepo
Backend & Messaging: RabbitMQ, Event-driven systems, REST/GraphQL APIs, Distributed services
Data & Search: PostgreSQL, MySQL, SQL Server, Redis, Meilisearch
Auth & Security: OAuth2, OIDC, JWT, session management
Testing & Observability: Jest, Playwright, React Testing Library, Grafana, New Relic, Rollbar, GrowthBook

PROFESSIONAL EXPERIENCE

Full-Stack TypeScript Engineer │ WhoCanFixMyCar (FixMyCar)   Jul 2023 - Present

*Cross-functional engineer working across **B2C, B2B and Architecture** squads to lead high-impact projects at one of the UK's largest automotive marketplaces.*

- **B2C Funnel Re-architecture:** Led the move from React to Next.js (App Router) for our main consumer flow. Worked with Product and Design to defer sign-ups to slash time-to-quote from ~60s to **just 10s**, driving a **12% uplift in completed jobs**.
- **Quality & Velocity Initiative**: Directed a cross-domain quality initiative across **30+ services**. Upskilled 8 senior engineers, resulting i**n a 40% increase in coverage,** 20% fewer rollbacks, and cutting PR cycle time from 3 days to **under 24 hours**.
- **Infrastructure Migration:** Managed a **zero-downtime** migration from NATS to RabbitMQ (handling **460k+ weekly events**). Standardised retry, DLQ, backoff and idempotency patterns to ensure **100% message reliability** across all domains.
- **Search Optimisation**: Built and deployed a self-hosted **Meilisearch cluster on Kubernetes** to handle 1.82M UK locations. This reduced p50 latency from **800ms to 35ms** and eliminated **third-party API costs**.
- **Pipeline Improvements:** Overhauled deployment pipelines across 12 microservices. Removed Webpack and optimised CI/CD to **reduce build times by 50%** and **halve AWS ECR costs**.
- **Experimentation:** Rolled out GrowthBook for A/B testing and **canary releases**, enabling instant rollbacks and safe testing on **5% of traffic**.

Full-Stack Engineer │ Meadow Vale Foods Ltd.   Sep 2020 - Jul 2023

I joined as the sole engineer to design and build a revenue-critical B2B e-commerce platform from the ground up.

- **Platform Ownership:** Architected a system processing **£200k+ in daily transactions**. Maintained high availability during peak trading periods without a dedicated ops team.
- **Team Leadership:** Scaled the engineering team from **one to three**. Handled the hiring process and **mentored two junior developers** through pairing, workshops and code reviews, both of whom have since progressed into full-time engineering roles.
- **DevOps Transformation:** Built CI/CD pipelines from scratch, increasing release cadence from 5/month to **25+ a week** and reducing release incidents by **60%**.
- **Internal Tooling:** Developed custom applications for holiday management, sales and marketing dashboards and sample tracking that replaced manual spreadsheets for **50+ staff members**, significantly reducing admin overhead.

EDUCATION

University of Wrexham Glyndwr   2017–2020
BSc Computer Science – Networks & Security (First Class Honours)