

Curriculum Vitae

Senior software engineer

SUMMARY

Software engineer with experience across web services, systems programming, and data processing. Recent work centres on TypeScript and Rust services, cloud infrastructure across AWS, GCP, and Cloudflare, and the CI/CD, observability, and tooling around them.

SKILLS

Languages

· TypeScript · JavaScript · Rust · C# · Bash · C · SQL · Python

Web & APIs

· React · Vue · GraphQL · REST · Node.js · Bun

Cloud & infrastructure

· AWS · Lambda · S3 · Cognito
· Google Cloud · Cloud Run
· Cloudflare · Pages
· IaC · CloudFormation · SST · ARM templates
· CI/CD pipelines

Practice & tooling

· Monorepo & devcontainer workflow
· Observability · OpenTelemetry · PostHog
· Testing · Playwright · Checkly
· Agentic development

WORK EXPERIENCE

Senior Software Engineer

March 2023 – April 2026 · Florida, US (Remote)

A financial data aggregator and API service provider.

Owned several cross-cutting platform initiatives across a TypeScript/Vue/React and Rust codebase:

- Migrated authentication from a bespoke system to AWS Cognito
- Built out CI/CD across the majority of the product
- Codebase conversion to a monorepo + devcontainer for reproducible dev environments, coherent review, and atomic deployments
- Defined infrastructure-as-code for AWS and Cloudflare micro-services
- Developed an Excel add-in for financial data end to end
- Integrated OpenTelemetry and authored team guidelines for debugging and investigation
- Prototyped Salesforce data integration
- Established agentic-development guidelines and modernised repo documentation for onboarding and agent use
- Added automated API, smoke, and UI tests in Checkly

Full-stack Developer

May 2021 – March 2022 · UK

A social platform centred on high-quality photography.

- Modernised the platform's APIs using GraphQL
- Migrated the authentication system to a Keycloak instance
- Modernisation and re-styling of key pages using React; incremental migration from PHP

Software Developer

February 2017 – July 2021 · Dorset, UK

A UK-wide telecoms, internet and cloud service provider for businesses.

Worked in an internal software team building bespoke applications for other departments, alongside several customer-facing applications. Notable projects:

- A React web app for building sales quotes from current product and pricing data
- Migration of a heavily-customised on-premise Microsoft Dynamics CRM to cloud-based Dynamics 365
- A bespoke ETL-style data-synchronisation service integrating disparate commercial systems
- Continued migration of on-prem internal services to Azure, with continuous deployment and code-defined infrastructure

Software Developer

May 2014 – February 2017 · Hampshire, UK

A company producing appliances for WAN acceleration and storage-protocol bridging.

A flexible role spanning development, testing, mentoring, and documentation. Notable work:

- IPsec VPN functionality
- WCCPv2 support, a protocol for real-time network-traffic redirection
- Conversion of user documentation to LaTeX for standardised formatting and cross-manual text reuse

EDUCATION

Computer Science and Mathematics, B.Sc. (Hons, 2:2) — University of Manchester · 2009 – 2012