

## SUMMARY

Goal-oriented Software Engineer with 5+ years of experience delivering scalable, secure, and user-focused systems across government, healthcare, and enterprise domains. Offers a proven ability to bridge complex technical challenges with clear, maintainable solutions that drive strategic, value-driven outcomes. Experienced in leading projects from concept to production through close collaboration with cross-functional teams, balancing system design with user experience. Recognised for calm leadership, clear communication, and a pragmatic approach to building high-impact, resilient products.

## EXPERIENCE

### **IBM, Senior Forward Deployed Software Engineer**

**Jan 2022 – Present**

- Deployed distributed, serverless services to support real-time identity lifecycle workflows, ensuring fault isolation, predictable performance, and transparent data flow across loosely coupled systems.
- Applied domain-driven design principles and well-structured APIs to simplify inter-service communication and reduce cognitive load for downstream teams.
- Implemented adaptive caching, capacity tuning, and event orchestration that improved throughput and response latency by 40%, enabling internal staff to complete approval and audit workflows 2× faster.
- Partnered with designers and analysts to deliver React + TypeScript dashboards visualising live operational states, bridging complex backend behaviour into intuitive user experiences.
- Embedded authentication, authorisation, and auditability using standards-based identity frameworks (OAuth2, Cognito), strengthening access governance without compromising usability.
- Enhanced observability and resilience through structured logging, initiative-taking alerting, and fallback logic that reduced incident resolution time and increased confidence in production.
- Drove engineering excellence by introducing consistent testing (Jest), CI/CD practices, and collaborative code reviews, achieving 95% coverage and predictable, low-risk releases.
- Influenced architectural direction and mentoring within the team, advocating for scalable, maintainable design patterns and pragmatic trade-offs between cost, speed, and reliability.

### **IBM, Software Engineer**

**October 2021 – Jan 2022**

- Developed and optimised Oracle APEX-based web applications integrated with backend services hosted on AWS Workspaces, combining low-code agility with custom service integrations for scalability and security.
- Presented a secure, compliant platform adhering to strict data governance standards, including data encryption, role-based access controls, audit trails, and a least-privilege architecture, reducing production vulnerabilities by 30%.
- Implemented robust data validation and error-managing mechanisms, ensuring system reliability, traceability, and consistent performance under load.
- Partnered with a cross-functional team of five engineers, two business analysts, and a project manager to translate evolving stakeholder requirements into technically sound, scalable solutions.

### **Frontend Engineer**

**March 2019 - October 2021**

*Developed end-to-end digital experiences for clients across e-commerce and service industries, owning the full lifecycle from UX design to production deployment.*

- Engineered performant, responsive interfaces using React, Svelte, HTML, CSS, and JavaScript, reducing average page load times by 30% and improving Core Web Vitals across client projects.
- Integrated APIs and backend services to enable real-time data flows, authentication, and state management, ensuring functional depth beyond static frontends.
- Applied performance optimisation techniques such as lazy loading, debouncing, further enhancing responsiveness.

- Maintained design consistency by developing reusable components and enforcing structured CSS architecture, improving scalability and developer velocity.
- Collaborated directly with clients to translate business needs into UX-led technical solutions, starting with prototypes in Figma and iterating into production-ready applications.
- Leveraged GitHub Actions to automate builds and streamline delivery pipelines, leading to a shortening of feedback loops.
- Used Google Analytics to track performance and guide iterative improvements grounded in data.

#### **Google, Top Black Talent Program**

**November 2018 – November 2018**

- Gained foundational experience in software engineering, entrepreneurship, and data analytics during a competitive program focused on underrepresented talent in tech.

### **PAST PROJECTS**

#### **Event-Driven Cyber Deployment System**

*Problem Statement: A cybersecurity client needed to enable secure, real-time tooling and data access for analysts and security teams working in high-risk, remote environments with limited network coverage.*

A core member of a 7 engineer development team for designing and engineering a bespoke cloud-native platform for a large organisation which aims to be deployed across key business units nationally, serving 10 000+ users and processing thousands of requests per minute across government and enterprise environments. Engineered a production-grade, cloud-native platform on AWS using event-driven architecture to deliver scalable, identity-protected access and real-time data visibility across distributed users. The system integrated DynamoDB, CloudFront, and serverless compute to ensure reliability, scalability, and fine-grained content access control, enabling secure logins and operational transparency even under constrained network conditions. Regularly collaborated with solutions architects, product managers, and security stakeholders to align technical design with mission objectives and operational constraints. The solution reduced deployment delays, improved analyst safety, and established a resilient foundation for national cybersecurity operations.

#### **Workforce Health & Wellbeing Platform**

*Problem Statement: A national public-sector organisation needed a secure and efficient system to manage employee health and wellbeing data, replacing fragmented manual processes that created delays, data inaccuracies, and compliance risks.*

Developed a cloud-hosted Oracle APEX platform to support over one million employees within one of the UK's largest national workforces enable real-time access, automation, and data integrity across multiple departments. Designed and refactored relational schemas and PL/SQL pipelines, including a custom data export solution that allowed users to extract complete file data, names, attachments, and related records, with a single click, eliminating manual reporting and cross-departmental overlap. The platform reduced manual effort by 50%, cut response times by 45%, and significantly improved reliability and user confidence across the organisation, and is deployed across the organisation.

More projects available upon request

### **TECHNICAL SKILLS**

**Languages & Frameworks:** JavaScript, TypeScript, HTML, CSS, Node.js, Python, React, Svelte, Astro

**Cloud & Data:** AWS (Lambda, DynamoDB, S3, CloudFront, API Gateway), SQL (MySQL), NoSQL (DynamoDB, MongoDB)

**Development Practices & Tooling:** Jest, Git, Jira, Confluence, Bitbucket, Agile/Scrum, Figma, Postman

### **EDUCATION AND CERTIFICATIONS**

BSc Accounting and Financial Management, 2019

AWS Certified Cloud Practitioner 2021

Registered Scrum Master