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Summary

I'm a senior software engineer with over 20 years' experience building reliable, scalable systems across fintech, retail, publishing, public sector, and Web3. I specialise in backend and platform work, GoLang microservices, modernising legacy systems, and delivering cloud-native infrastructure that works in production. I've worked across regulated environments. I've delivered in high-trust teams and contributed open-source and internal tooling. My technical background spans hardware and software, and my project work includes:

- **Developer experience** - CI/CD automation, platform migration, and observability-first design.
- **Infrastructure** - migrating legacy systems to scalable, containerised microservices.
- **Cloud-native engineering** - developing microservices deployed to AWS/GCP, Kubernetes, and PaaS platforms.
- **Regulatory and compliance** - systems aligned with PCI DSS, GDPR, PSD2, and internal audit frameworks.
- **Event-driven** - RabbitMQ, Kafka, and event-driven systems built for scale and resilience.
- **Payments** - internal and customer-facing flows across fintech, retail, and embedded environments.
- **API design** - OpenAPI/AsyncAPI publishing pipelines, mocking, validation, and spec-first development.
- **Internal tools and automation** - building tools that unblock teams and reduce manual effort.
- **AI-assisted engineering** - hands-on delivery with Claude Code, plus experience applying LLM-as-judge and human-review approaches for evaluating AI-generated output.

I enjoy solving problems. I've learned to balance speed with rigour and pragmatism with long-term thinking. I write code that works, is easy to maintain, and self-documents. Sound engineering is as much about people as it is about the code. I have worked on critical projects where autonomy, clarity, and delivery are crucial. I'm equally comfortable building new systems, refactoring old ones, or mentoring developers. Outside of work, I volunteer as a Scout Leader, which mainly involves mud, camping, and helping kids figure things out the hard way. I'm also heavily involved in jousting in the UK, compete in HEMA (Historical European Martial Arts) with longsword, and practice classical dressage.

Skills

Languages:

GoLang, Java, Node.js/TypeScript, PHP, Bash, SQL, HTML/CSS/JS, Scala, Python, Groovy, .NET

Cloud & Infrastructure:

AWS (ECS, Lambda, S3, RDS, IAM, etc), Azure, GCP, Terraform, Docker, Kubernetes (EKS, AKS), Argo CD, VPC design, security groups, cloud-agnostic platform design

Frameworks & Tools:

Spring (Boot), Akka, Scalatra, JSF, Thymeleaf, JPA/Hibernate, Keycloak, Auth0, JWT, Android SDK, Mule ESB, JBoss, WebSphere, Tomcat, Jenkins, TeamCity, GitHub Actions, GitLab CI, Swagger/OpenAPI, RabbitMQ, AMQP

Databases:

PostgreSQL, MS SQL Server, Aurora, MySQL, Oracle, MongoDB, DynamoDB, Neo4j, Infinispan, H2, SQLite

Testing & DevOps:

- **Go:** testing, testify, httptest, gomock, coverage tools, custom assertions
- **Node.js:** Jest, ts-node for testing flows
- **Java:** JUnit, TestNG, Mockito, integration test harnesses
- **Other:** CI/CD pipelines (GitHub Actions, GitLab CI), containerisation with Docker, observability stacks (Datadog, NewRelic, Prometheus, Grafana, Kibana), supply-chain tooling (Sonatype, Veracode, golangci-lint)

AI-Assisted Engineering:

Claude Code, LLM-as-judge evaluation frameworks, human-in-the-loop review, prompt design, agentic coding workflows

Other Domains:

Web3, Solidity, Crypto assets, React Native, Flutter/Dart, Android, computer vision (YOLO, MediaPipe, DINOv2), embedded/IoT (ESP32, MQTT), SOA, RESTful/SOAP APIs, ETL, data warehousing, complex SQL, enterprise architecture, legacy modernisation, DevEx tooling

Experience

Civica - Senior Developer

Nov 2025 - Present - Remote - GovTech

- Sole engineer on a greenfield migration of a legacy .NET application to GoLang microservices with a React frontend. Architected the end-to-end migration plan and delivered the full platform foundation against it.
- Designed and implemented the integration layer with the incumbent platform, handling bi-directional data flow in and out.
- Built the stack cloud-agnostic by design, containerised workloads, portable infrastructure, no provider-locked primitives.
- Onboarded the project onto Civica's internal Kubernetes PaaS, taking it from an empty repo to running in every environment.
- Scaffolded and stood up both the GoLang microservices backend (with PostgreSQL) and the React frontend.
- Built a lightweight identity-mock service that unblocked local development and cross-environment testing while the internal IdP remained in build, letting integrations land against a realistic token flow months ahead of the real one.
- Delivered the full CI/CD and governance toolchain to Civica's standards: dependency scanning, SAST, linting, OpenAPI spec publishing, IaC, SQL migration pipelines, and build/release/deploy/environment-management workflows.
- Active contributor to Civica's AI-assisted engineering rollout, with hands-on agentic coding in day-to-day delivery and contributions to internal AI quality and review processes.
- Making surgical modifications to the legacy .NET to expose data and emit events to the Microservices tech stack

Technologies: GoLang, PostgreSQL, React, TypeScript, Docker, Kubernetes, Argo CD, GitHub Actions, Terraform, OIDC, OpenAPI.

SAFE / FRMSc V3 - Senior Platform & Backend Engineer

Aug-Sep 2025 - Remote

- Split a .NET 4/6 + Node 14 monolith (carrying significant technical debt) into service-aligned workloads on AKS with per-service Ingress.
- Upgraded runtimes to .NET 9 and Node 24. Standardised Dockerfiles and images.
- Built reusable GitHub Actions for build/push/deploy with parameterised envs and namespaces.
- Hardened K8s: initContainers for deps, tuned probes, PVC for ASP.NET DataProtection keys.
- Centralised config and security: strict CORS, validated JWT issuers, Redis via secrets and K8s Service.
- Improved observability with structured logging across services & deployed an EKS stack for alerting and monitoring.
- Stabilised CI: Unit and System integration tests.
- Delivered a clean frmscdev workflow for AKS deploys.
- Delivered a clean frmsc instance in a new standalone AKS environment.

Technologies: .NET 9 (ASP.NET Core), C#, Node 24, TypeScript, Docker, AKS (Kubernetes), NGINX Ingress, cert-manager, GitHub Actions, GHCR, Terraform (AzureRM), Azure SQL, Azure Blob Storage, Redis, Keycloak (OIDC/JWT), structured logging, ISO 27001-aligned controls.

Sainsbury's - Senior Full Stack Developer

Mar 2025 - Jul 2025 - Remote

- Improved developer experience by building robust GitHub Actions and reusable workflows in TypeScript, streamlining Sainsbury's API onboarding across internal teams.
- Integrated OpenAPI and AsyncAPI specifications into SwaggerHub Design Hub and Portal, streamlining delivery.
- Initiated and led the design of a new backend service for managing SwaggerHub state, authentication, and authorisation within Sainsbury's internal PaaS (Kubernetes, Helm, GitHub Actions).

Technologies: TypeScript, GitHub Actions, Docker, Kubernetes, Helm, SwaggerHub, OpenAPI, AsyncAPI

Why Me?

I'm the person teams turn to when something's complex, messy, or stuck. Whether refactoring a legacy system, launching a new service, or developing internal tooling, I focus on leaving systems clearer, teams faster, and outcomes stronger. Trusted to work independently or lead delivery when it matters, I've built a career on pragmatism, depth, and delivering results.

Contact

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