

EMMANUEL MANANA

Senior Software Engineer · Full-Stack · Cloud & DevOps
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PROFESSIONAL SUMMARY

Senior Software Engineer with 6+ years delivering production systems across banking, fintech, energy, and enterprise platforms. Strong track record modernising legacy systems into event-driven microservices, owning full-stack delivery (C#/.NET, Java/Spring, React/Vue/Angular), and running cloud CI/CD on AWS, Kubernetes, Argo CD, and GitHub Actions. Known for shipping high-stakes features in agile teams, reducing operational cost through infrastructure optimisation, and raising engineering quality through automated testing and DevOps practice.

TECHNICAL SKILLS

Languages: C#, Java, Python, JavaScript (ES6+), TypeScript, Kotlin, PHP, C++, SQL
Backend: .NET Core, Spring Boot, Node.js, Django, Flask, GraphQL, REST APIs
Frontend: React, Next.js, Nuxt, Vue.js, Angular, RxJS, NgRx
Cloud & DevOps: AWS (Lambda, EC2, Amplify), Azure, Docker, Kubernetes, Terraform, Argo CD, GitHub Actions, Jenkins, Ansible, CI/CD
Data & Messaging: PostgreSQL, MongoDB, Kafka, SQL
Quality: Jest, Cypress, unit & automation testing, penetration testing, Git

PROFESSIONAL EXPERIENCE

Software Engineer L4 | Mezzanine

Stellenbosch, South Africa · Jan 2026 – Present

- Contribute to Eskom’s Virtual Wheeling solution — management, processing, reconciliation, and reporting of energy transactions across backend/frontend, integration, and data processing.
- Support SAMS with GeoServer-integrated GIS/mapping, revenue assurance, case management, and database optimisation.
- Deliver Vodacom Energy Billing (VEMS) with Spring Boot and Vue 3 — analytics dashboards, SSO/auth, API enhancements, DB migrations, and CI/CD.
- Support eCares (ECD) across registration workflows, central-to-provincial sync, reporting, admin tools, and production support.
- Apply full-stack delivery, SQL/performance tuning, deployment config, RBAC, CI/CD, and production releases across multi-product platforms.

Software Engineer II | Capitec Bank

Stellenbosch, South Africa · Jan 2024 – Jan 2026

- Delivered strategic credit and banking capabilities on C#, .NET, Kafka, and PostgreSQL, supporting high-volume transactional workloads in a regulated banking environment.
- Led modernisation of legacy banking platforms into scalable, event-driven domain architectures — improving maintainability, service isolation, and system performance.
- Built and maintained customer-facing and internal frontends across Vue.js, Next.js, Nuxt, React, and Angular used by banking product teams.
- Owned CI/CD and release automation with Argo CD and GitHub Actions, reducing manual deployment friction and improving release reliability.
- Orchestrated production cloud infrastructure with Kubernetes and Terraform, enabling consistent, repeatable environments across services.

Full-Stack Developer | Synthesis Software Technologies

Johannesburg, South Africa · Dec 2021 – Feb 2024 (2+ years)

- Designed, built, and maintained fintech microservices across Java, Kotlin, C#, and .NET, serving multiple enterprise clients in regulated digital banking contexts.
- Delivered responsive production frontends with React, Angular, and Next.js, collaborating closely with product and infrastructure teams.
- Implemented DevOps standards with Docker, Kubernetes, Jenkins, Ansible, GitHub Actions, and Argo CD — improving build/deploy consistency across services.
- Contributed to systems and infrastructure delivery for enterprise shipping and logistics clients, spanning backend services, cloud platforms (AWS & Azure), and CI/CD pipelines.

Full-Stack Developer | Carter (Renault)

Johannesburg, South Africa · Dec 2020 – Dec 2021

- Developed and maintained the server-side rendered consumer platform (heycarter.com) using React and Next.js, supporting ongoing feature delivery and performance improvements.
- Owned backend and CRM integrations with C#, .NET, Microsoft IIS, and Zoho CRM — streamlining internal operational workflows.

Full-Stack Developer (Remote) | Turnnout (VOD)

Toronto, Canada · Oct 2021 – May 2022 (part-time / concurrent)

- Migrated payment infrastructure from Stripe to Recurly, improving billing scalability and operational resilience for a live VOD platform.
- Optimised AWS resource usage (including Amplify CI/CD), cutting unnecessary cloud spend while preserving performance.
- Delivered full-stack features with Java, Spring Boot, GraphQL, React, and SQL.

Developer Associate | Standard Bank

Johannesburg, South Africa · Jul 2020 – Nov 2020

- Developed frontend banking solutions with Angular, RxJS, and NgRx for a live bank programme.
- Raised delivery quality with Jest unit tests and Cypress automation; contributed Java/Spring backend work as needed to close project scope.

Full-Stack Developer Intern | BBD Software

Johannesburg, South Africa · Feb 2020 – Jun 2020

- Completed intensive full-stack training and client delivery under senior engineers, implementing and refining solutions prior to production rollout.
- Worked across Java/Spring, JavaScript, Node, Angular, React, C#/.NET, SQL, and Git — forming the foundation for subsequent banking placements.

EDUCATION & CERTIFICATIONS

Software & Systems Engineering — WeThinkCode

Johannesburg, South Africa · Feb 2019 – Dec 2020 · École 42-style programme covering C/C++, Java, PHP, full-stack web, DevOps, and penetration testing

AWS Cloud Developer Nanodegree — Udacity

Egypt Innovate Scholarship Recipient · Covered AWS, Ansible, CI/CD, microservices, serverless architecture, Docker, and Kubernetes

Contributor — Java Full-Stack Course Content (javafullstack.info)

Jul 2020 – Nov 2020 · Contributed to building a practical full-stack Java learning curriculum

CORE COMPETENCIES

Microservices Architecture · Event-Driven Systems · Full-Stack Engineering · Cloud Computing (AWS/Azure) · CI/CD & DevOps · API Design · Distributed Systems · Agile Delivery · Software Design · Production Support

ADDITIONAL INFORMATION

Notice period: 1 calendar month · Location: Gauteng / Cape Town — willing to relocate · Employment Equity: African · Availability: Open to Senior Software Engineer / Full-Stack / Platform roles

Awards: Egypt Innovate Scholarship · Languages: English (professional)