

Gerard Eklu

Software Engineer

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Summary

Software Engineer with 5+ years of experience building, deploying, and supporting cloud-native web applications using JavaScript/TypeScript and Python. AWS Certified Solutions Architect with hands-on experience in AWS, GCP, CI/CD, containerization, observability, and AI-assisted development workflows.

CORE SKILLS

- **Languages:** JavaScript, Typescript, Python
- **Frontend:** React, [Next.js](#), Tailwind CSS
- **Backend:** Node.js, Express.js, FastAPI, REST APIs, Prisma
- **Databases:** PostgreSQL, MongoDB, Neon
- **Cloud:** AWS(EC2, S3, IAM, Lambda, API Gateway, Cloudwatch), GCP(Cloud Build, GKE)
- **Devops:** Docker, kubernetes, Terraform, CI & CD(Github Actions)
- **Observability:** Prometheus, Grafana, Cloudwatch
- **Systems:** Linux/Unix, Agile, Jira, Confluence
- **AI-Assisted Development Workflow:** ChatGPT, Cursor, OpenAI Codex

Experience

ExM Technologies | Software Engineer

2025 – Present (Contract)

- Developed and maintained production web applications using React, Next.js, TypeScript, Node.js, and REST APIs.
- Supported AWS cloud deployments and CI/CD pipelines using GitHub Actions.
- Containerized applications with Docker to improve consistency across development and production environments

The Home Depot | Software Engineer

2019 - 2025

- Developed enterprise full-stack applications supporting retail operations using React, Node.js, and REST APIs.

- Built reusable frontend components and backend microservices supporting retail operations.
- Modernized legacy Angular applications, improving maintainability and reducing technical debt.
- Automated deployments using GitHub Actions, TeamCity, and Spinnaker.
- Collaborated on cloud deployments, production troubleshooting, and Agile software delivery.
- Documented deployment workflows, Zebra Android device setup, and QA testing procedures for retail applications, improving onboarding and development consistency.

SELECTED PROJECTS:

PitchPulse26 — Full-Stack Cloud-Native Prediction Platform | [Live Demo](#) | [GitHub](#)

- Built and deployed a production full-stack application using React, TypeScript, Node.js, PostgreSQL, Terraform, and AWS.
- Implemented secure authentication, prediction workflows, leaderboards, and tournament progression.
- Delivered new features and enhancements based on user feedback throughout the World Cup tournament.
- Automated deployments using GitHub Actions and Terraform.
- Resolved production database migration issues while maintaining service availability.

ApplyTrack API — Cloud-Native Backend & Reliability Project | [Github](#)

- Built a RESTful FastAPI backend using SQLAlchemy and PostgreSQL.
- Containerized the application with Docker and Docker Compose.
- Deployed the API to Google Kubernetes Engine using Cloud Build.
- Configured Kubernetes Deployments, Services, Secrets, readiness probes, and liveness probes.
- Implemented Prometheus metrics and Grafana dashboards for latency, request, and error monitoring.
- Defined SLIs, SLOs, and error budgets while validating observability through controlled failure simulations.

CERTIFICATIONS: AWS Certified Solutions Architect – Associate (SAA-C03) | Feb 2026
[Verify Credential](#)

Education: Central Texas College — Information Technology

Languages: English, French, Spanish