

ZAKARIYE MOHAMED

Atlanta, GA | (470) 962-8351 | zakariyem0099@gmail.com
linkedin.com/in/zakariye-mohamed | github.com/zakisCoding | zakariye-mohamed.vercel.app

EDUCATION

Georgia Institute of Technology | M.S. Computer Science | Admitted | Expected May 2028

Georgia State University | B.S. Computer Science | Major GPA: 3.8 | May 2027

Relevant Coursework: Data Structures, Algorithms, Software Engineering, Web Programming, Software Development System-Level Programming, Operating Systems, Machine Learning

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C/C++, SQL, HTML/CSS

Full Stack: React, Next.js, Node.js, Express, Django, FastAPI, REST APIs, WebSockets, Tailwind CSS

Data & Systems: PostgreSQL, MySQL, Redis, Supabase, Prisma, Drizzle ORM, Linux, TCP/IP

Cloud & Delivery: AWS, Azure, GCP, Docker, Kubernetes, GitHub Actions, Jenkins, Terraform, ArgoCD

Certifications: Cornell University Machine Learning Foundations | AWS Certified Cloud Practitioner | Microsoft Certified: Azure Fundamentals (AZ-900)

EXPERIENCE

InComm Payments | Systems Engineer Intern

Sep 2026 - Present

- Support migration and onboarding of InComm Health clients to a new SFTP-based batch-processing platform, documenting client file flows, transfer requirements, dependencies, and operational handoffs across enterprise teams.
- Build, test, and maintain monitoring alerts for client file workflows to improve incident detection, operational responsiveness, and platform reliability.

Cornell Tech | AI Engineer Fellow

Apr 2026 - Present

- Built and evaluated neural-network, RAG, and multimodal LLM applications with TensorFlow and Keras across data preparation, model evaluation, and system integration.
- Collaborated with company partners to translate open-ended product requirements into end-to-end AI features and MCP-based workflows.

IBM | Site Reliability Engineer Intern

May 2026 - Aug 2026

- Built and deployed Sentinel, a React/Django/PostgreSQL operations product that unified application health, incidents, logs, tenant search, and on-call workflows for 50+ engineers and managers.
- Designed REST APIs and correlation-ID tracing across two ELK clusters; integrated Jira, Gemini AI, and an MCP knowledge layer for ticket creation, incident summaries, troubleshooting recommendations, and live operational context.
- Developed reusable Terragrunt/Terraform templates and Python automation; added validation, deployment, rollback, and alerting for enterprise reliability workflows.

Signify | Software Engineer Intern

Jan 2026 - May 2026

- Automated build, test, artifact publishing, and deployment with Python, Bash, Bamboo CI, Docker, and Artifactory, improving development efficiency by 30%.
- Programmed a C/C++ BLE Mesh lighting system for real-time device control and state synchronization across networked embedded devices.
- Migrated on-prem workloads to AWS and Azure and designed scalable compute/storage workflows, improving build time by 40%.

Crescent Technology | AI Engineer Intern

Jul 2025 - Dec 2025

- Built a production RAG pipeline that reduced hallucinated responses by 80% and cut chatbot latency from 11-13 seconds to under 4 seconds through retrieval and pipeline optimization.
- Engineered expiring conversational memory that reduced token usage by ~20% and built MCP workflows for lead capture, intent routing, and escalation.
- Deployed containerized AI microservices on AWS using Docker and REST APIs, supporting hundreds of user sessions.

PROJECTS

QuickBite - AI Food Delivery Platform | *Next.js, TypeScript, PostgreSQL, Supabase, OpenAI*

- Built a full-stack customer/driver platform with chat-based ordering, structured LLM actions, location-aware restaurant discovery, live order tracking, and real-time messaging.
- Designed relational data models and order lifecycle workflows; integrated OpenAI, Google Places, geolocation fallbacks, and an AI driver communication copilot.

Kash - AI Finance Tracker | *Next.js, React, Prisma, PostgreSQL, Gemini AI*

- Shipped a production expense-tracking SaaS with AI receipt entry, recurring transactions, budget alerts, secure authentication, and financial dashboards.
- Implemented categorized income/expense analytics, automated budget emails, and persistent PostgreSQL data with user-level access controls.

Redis Clone | *C/C++, TCP Networking, Systems Programming*

- Built a Redis-like in-memory database with a custom TCP protocol, TTL expiration, optimized request handling, and an event-loop execution model for concurrent clients.

Production Kubernetes CI/CD Platform | *Jenkins, Docker, Terraform, AWS ECR/EKS, ArgoCD, SonarQube, Trivy*

- Built a 6-stage delivery pipeline from code quality and CVE scanning through Docker/ECR/EKS deployment, GitOps rollback, observability, and Route 53 traffic routing.

LEADERSHIP & OPEN SOURCE

ColorStack | Co-founded the GSU chapter supporting Black and Latinx CS students through technical and career programming.

Open Source | Contributed 13+ pull requests across 10+ repositories focused on infrastructure, automation, and developer tooling.

Shakur Heating and Air | Led technical operations and digital systems for a residential HVAC business.