

Uchechukwu Uboh

Senior Software Engineer | Distributed Systems | AI Infrastructure | Data Pipelines

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EXECUTIVE SUMMARY

Senior Software Engineer with **8+ years** of experience architecting secure, production-grade distributed systems for **HashiCorp, Google, and IBM**. Specialist in cloud-agnostic distributed systems, model serving and high-throughput data pipelines. Expert at defining technical "North Stars," aligning cross-functional stakeholders, and delivering high-availability platforms for Fortune 500 and Sovereign Cloud environments.

TECHNICAL TOOLKIT

- **Languages:** Go, JavaScript/TypeScript, Python, Java, C++, SQL.
 - **Frameworks/Libraries:** OpenAI, Node.js, Datadog, Flask, Express.js, Gin, gRPC, Spring Boot, LangChain, Scikit-Learn, Keras, Ollama, JUnit, PyTest, Ollama, Document AI, Vision AI.
 - **Cloud & Infrastructure:** Google Cloud Platform (GCP), Azure, Docker, Kubernetes, Terraform, GitHub Actions, Apache Kafka, Pub/Sub, Apache Kafka, OpenTelemetry.
 - **Data/Storage:** PostgreSQL, Cloud SQL, BigQuery, Redis, MongoDB, Neo4j.
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EXPERIENCE

Senior Software Engineer | Hashicorp | Apr 2025 - Present

- **Architected and led the implementation** of a high-throughput product usage ETL pipeline to support precise customer usage monitoring and multi-million dollar billing cycles.
- **Established technical North Stars** for cross-functional initiatives, defining API contracts and system boundaries that accelerated feature velocity across engineering squads.
- **Engineered Zero Trust security infrastructure** for team-owned repositories, implementing automated secret management and vulnerability scanning to achieve **100% security compliance**.
- **Optimized distributed system resilience** by implementing CI/CD workflows and observability patterns using Datadog.
- **Leveraged LLM-based agents** to automate the end-to-end conversion and validation of Snowflake stored procedures to SQL; engineered a scalable pipeline that handled thousands of procedures, de-risking a critical data warehouse migration and delivering it **weeks ahead of schedule**.

Software Engineer | Google | Nov 2022 - Apr 2025

- **Engineered an AI-orchestrated redaction pipeline** utilizing Python, Document AI, and Cloud DLP; automated the processing of **165k+ sensitive government documents** with 99%+ accuracy, significantly reducing manual legal review cycles by months.
- **Technical Lead for State Government Health Portal**, modernizing provider management systems. Integrated the **US Web Design System (USWDS)** into an Angular framework, improving accessibility (**WCAG 2.1 compliance**) and improving accessibility for millions of users.
- **Designed a modular Secure Access Request System** now utilized as a reusable internal component, reducing onboarding friction for public-facing portals by **20%**.
- **Developed a Cloud Sandbox Ecosystem** for Federal researchers, enabling secure, isolated experimentation that directly drove a **15%** increase in GCP consumption and securing long-term agency contracts.

Customer Engineer | Google | Aug 2021 - Nov 2022

- **Spearheaded technical discovery and prototyping** for strategic accounts, resulting in over **\$10M in closed**

- **annual recurring revenue (ARR)** through bespoke GCP architecture designs.
- **Mentored 5+ junior engineers**, standardizing technical demo workflows that reduced the average deal cycle time by 15%.

Co-Founder & Tech Lead | Full Stack Development | Feb 2020 - Feb 2022

- **Directed a full-stack engineering team** in the delivery of mobile-first applications using React, Node.js, and Firebase; implemented streaming UIs and real-time synchronization for high-concurrency user bases.

Solutions Engineer | IBM | Jun 2019 - Aug 2021

- **Orchestrated a resource management platform** for a major non-profit, delivering a **50% increase** in operational throughput via automated resource allocation.
- **Scaled a regional coding bootcamp** for **400+ students** and delivered an advanced curriculum in **Data Structures, Algorithms, and System Design**.

CORE COMPETENCIES

- **Infrastructure:** Distributed Systems, Cloud-Agnostic Architecture, Kubernetes, Terraform, Zero Trust Security.
- **AI/ML:** Local LLM Deployment (Ollama), Model Serving Infrastructure, Document AI, OpenAI.
- **Data Engineering:** High-Throughput ETL, Kafka/Pub-Sub, BigQuery, Product Usage Analytics.
- **Leadership:** Cross-functional technical direction, Mentorship, API Design, System Decomposition.

EDUCATION

M.S., Software Engineering | University of Texas at Austin | Aug 2023 - Aug 2025

B.S., Computer Engineering | Prairie View A&M University | Aug 2015 - May 2019