

CHIEMEKA PATRICK KALU

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EDUCATION

University of California, Los Angeles, B.A. Computer Science and Linguistics

Jun. 2025

Las Positas College, A.A. Computer Science, Honors

EXPERIENCE

Software Engineer, Palo Alto Networks (NetSec R&D)

Santa Clara, CA | Aug. 2026 – Present

- Build and operate internal platform services used by 6+ engineering teams shipping to production, including a release portal, shared services, and CI pipelines.
- Own a deployment ledger service writing deploy events to Bigtable, powering deployment dashboards and control surfaces across 36 repos and 44 container images.
- Drive infrastructure monitoring and alerting for product-agnostic platform health, building dashboards and alerts on GCP infrastructure.
- Contribute to a continuous quality pipeline that lets developers validate builds in hours instead of waiting on multi-week QA handoffs.
- Work across Terraform, Python, Go, and Kubernetes on deployments, L7 acceleration, and cloud cost optimization.

Software Engineer I, PayPal

San Jose, CA | Jul. 2025 – Aug. 2026

- Built LLM-powered review tooling integrated into CI/CD that automated code review checks, cutting review turnaround from ~2 days to ~4 hours.
- Built RAG pipelines connecting internal engineering knowledge sources to in-IDE AI agents, improving response relevance and cutting context-gathering time.
- Built observability across 60+ critical flows, including Terraform-provisioned Datadog dashboards adopted by 40+ engineers and monitoring that attached LLM-generated explanations to anomalies for on-call triage.
- Designed and shipped GraphQL APIs and resolvers (Kraken/Express.js) across credit card apply, servicing, and account management flows serving 3M+ DAUs.
- Built user-facing credit card flows (application, checkout, repayments) in TypeScript, React, and Next.js, raising Lighthouse accessibility compliance 20%.

Software Engineer, Mercor (Contract)

Remote | Jan. 2025 – Jul. 2025

- Automated dataset preprocessing with Python tooling for LLM fine-tuning runs, cutting data-prep time ~30% per training cycle.
- Built and validated a 1,000+ sample training set in Python, with filtering and refinement passes that improved downstream task accuracy.
- Partnered with AI researchers on prompt design and output evaluation for OpenAI workloads, lifting response quality ~20%.

Software Engineer Intern, Veeva Systems

Pleasanton, CA | Jun. 2024 – Sep. 2024

- Overhauled an enterprise auth system with MVVM architecture in Swift, cutting login times 20% and user-reported issues 35% across 10K+ DAUs.
- Built an automated snapshot-testing pipeline for 200+ UI components, eliminating 75% of visual regressions and reducing QA cycles 40%.

PROJECTS

GemSearch, Semantic YouTube Search (Chrome Extension)

- Built a Chrome extension for semantic search over YouTube video content using context-aware embeddings over chunked transcripts.
- Implemented an embedding and retrieval pipeline matching natural-language queries to the most relevant transcript segments.

Brewin Interpreter

- Implemented an interpreter for Brewin (a Java subset) with a lexer, parser, and AST evaluation engine supporting closures, recursion, nested scopes, and dynamic typing, validated on 1,000+ test programs.

TECHNICAL SKILLS

Languages: Python, Go, C++, TypeScript, JavaScript, SQL, Swift/SwiftUI, Bash, HCL/Terraform

AI/ML: RAG, embeddings and vector search, AI agents and tool-calling, LLM APIs, prompt engineering, model evaluation, fine-tuning, NumPy, pandas

Infrastructure: GCP, Kubernetes, Docker, Terraform, CI/CD, Datadog, Prometheus, Grafana, Bigtable, Linux, Git

Frameworks: FastAPI, GraphQL, Node.js, React, Next.js, Express.js, Firebase, scikit-learn