Salim Mohamed

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Education

Oregon State University June 2026
Bachelor of Science in Computer Science, Major GPA: 3.7/4.0 *Corvallis, OR*
Activities: *ColorStack, National Society of Black Engineers (NSBE), ACM @ OSU, AI Club @ OSU*

Experience

Software Engineer November 2026 – Present
Intuit *Mountain View, CA*
- Building an **AI** compliance layer to scale **QuickBooks** across international markets.

Forward Deployed Engineer July 2026 – November 2026
IBM *San Jose, CA*
- Cut five-whys root-cause reports from **8–16 hrs** by hand to under **15 min** by extending an **LLM** agent and **MCP** server used by **50+** support engineers beyond fixed queries, with exact **SQL** counts instead of guessed totals.
- Validated data for a customer-facing support metrics dashboard before its first client event, catching a premium-tier filter that applied to no customer and an **LLM** prompt that flagged every contract renewal as a critical risk.
- Deployed the agent to **20+** engineers with a signed **macOS .pkg** installer that needs no separate Python setup.
- Built a **Node.js/WebSockets** web chat so engineers could use the agent in a browser instead of an IDE plugin.

Software Engineering Intern June 2025 – August 2025
Voiya *Portland, OR*
- Deployed **AWS Bedrock AgentCore** and **Claude Agent SDK** for production AI agents powering interpreter scheduling and call routing, processing 120+ daily bookings across 200+ languages.
- Developed backend microservices for interpreter availability lookup, language-based caller matching, and booking validation, deployed in a **distributed system** serving a telecommunications platform.
- Built multi-step client intake form using **React** and **TypeScript** with client-side validation, integrating with **AgentCore Gateway** APIs for real-time interpreter availability.

Software Engineering Intern June 2024 – August 2024
Avaza Language Services *Nashville, TN*
- Built scalable ETL pipeline using **Python** and **Pandas** to migrate 50,000+ call records from legacy Excel system to **PostgreSQL**, reducing data retrieval time by 85% and eliminating manual entry errors.
- Developed automated data validation scripts to clean and standardize translator records, client IDs, and call logs across 20+ languages, ensuring data integrity for 100+ daily translation requests.
- Designed database schema and REST API endpoints using **Flask** to enable real-time translator availability lookup, replacing manual Excel searches with sub-second queries.

Projects

Argus | *Next.js, React, TypeScript, Convex, AWS Bedrock, Claude* | **1st Place, ColorStack Hackathon** Website
- Built autonomous AI agent using **Claude** via **AWS Bedrock** to monitor Polymarket trading data, flagging suspicious patterns like statistically improbable win rates and timing around major announcements.
- Developed full-stack application with **Next.js**, **React**, and **Convex** real-time database, integrating Polymarket Gamma API for live market data with a polished dashboard UI.
- Implemented responsible AI design with transparent evidence generation, full agent logging for accountability, and human-in-the-loop review for all alerts.

Real-Time Memory Analysis Engine | *C++, DirectX 11/12, FPGA, DMA, Win32 API* GitHub
- Architected FPGA-based memory acquisition system using DMA, achieving sub-5ms latency and **208.7 MB/s** throughput by bypassing OS abstractions for direct physical memory access.
- Developed **C++** application with DirectX 11/12 overlay rendering and Win32 API hooks, processing **10,000+** memory events/second with real-time visualization.
- Implemented scatter/gather read patterns and caching strategies, achieving **5,804 ops/sec** read rate—outperforming community baselines by **39%** throughput and **12%** read rate.

Technical Skills

Languages: Python, C++, C#, JavaScript, TypeScript, Java, SQL, R, Swift, Kotlin, HTML, CSS
Frameworks & Libraries: React, Next.js, Node.js, Express, Flask, Pandas, NumPy, scikit-learn, TensorFlow, pytest, Jest, Selenium
Databases & Tools: PostgreSQL, MySQL, MongoDB, Supabase, Docker, Git, CI/CD (GitHub Actions), Linux
Cloud & Infrastructure: AWS, AWS Bedrock, Claude Agent SDK, DirectX 11/12, Win32 API, FPGA, DMA