

AHMAD SHEIKH-KHALIL

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Education

University of Michigan

B.S in Computer Science

Expected May 2026

Ann Arbor, MI

- **Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Computer Architecture, Web Systems, Computer Security, Linear Algebra, Computational Linguistics, Discrete Math, Linux Programming

Technical Skills

Languages and Frameworks: C++/C, Typescript, Python, JavaScript, Go, SQL, Ruby, Java, React.js, Next.js, Flask
Tools and Technologies: Git, AWS, Bash/Linux, SQL, WebSockets, Docker/Kubernetes, REST APIs

Experience

Alif

Software Engineer

August 2025 – Present

San Francisco, CA

- Working on internal tools + automations

Orchids (YC W25)

Growth Engineering Intern

June 2025 – August 2025

San Francisco, CA

- Developed a free-credits link system with secure token generation, expiration logic, redemption tracking, and abuse prevention, enabling **5,000+ activations** and supporting scale from **1k to 50k users** in 30 days.
- Implemented an A/B testing and feature flag framework in Next.js with server-side gating, used in **10+ experiments**.
- Built Supabase/SQL data models for retention analytics, powering internal dashboards adopted by the engineering team.

Olo Inc. (NYSE: OLO)

Software Engineering Intern

June 2024 – August 2024

New York City, New York

- Built a search-based information retrieval system within the Engage dashboard, enabling **700+ restaurant brands** to manage store-level data across thousands of locations using **ranking, fuzzy search, and dynamic filtering**.
- Migrated backend services from Python to Go, lowering CPU usage on restaurant back-of-house machines by **~25%**.
- Implemented API integrations and Kubernetes aggregation tooling to combine store data into brand analytics.

Projects

OloWrapped | (Go, HTML, CSS, Templ, SQL)

- Built a Spotify Wrapped style analytics feature for restaurants, transforming order and loyalty data in **Snowflake** and generating personalized yearly summaries through a tuned RAG pipeline, integrated with Olo's Engage suite.
- Developed an event-driven backend with **queues, webhooks, and cron jobs**, alongside a responsive frontend using **server-side rendering and dynamic templates**.

Reddit Machine Learning Classifier | (C++, Naive Bayes Classifier, lldb)

- Developed **machine learning classifier** in C++, leveraging **natural language processing** techniques to predict project topics from posts on a general data structures and algorithms learning forum; achieved **92% accuracy**.

Map Reduce Framework | (Python, TCP/UDP)

- Created a Python-based **MapReduce framework for distributed compute**, utilizing **TCP and UDP protocols** for efficient distributed processing and data transmission across the network.
- Employed **fault-tolerant** Manager and Worker instances to provide **reliability** for large-scale distributed projects.

RentScoper | (React Native, Node.js, Express, Firebase, SQLite)

- Developed a cross-platform rental price tracker in React Native, scraping live Craigslist listings with **Python + BeautifulSoup** and aggregating historical data into JSON for real-time analysis.
- Implemented interactive data visualizations with **Victory Native** and local persistence with **AsyncStorage**, enabling users to filter listings, track trends by neighborhood, and access data offline.

Additional

Extracurriculars: Michigan Tech Collaborative - *VP*, Halimah Project - *Mentor*, Pulse Consulting - *Project Manager*

Interests: Hiking, Cinematography, Skiing, Soccer, Arabic Poetry, Clothing Design, Thrifting, Adeni Chai connoisseur