

AHMAD SHEIKH-KHALIL

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Education

University of Michigan <i>B.S in Computer Science</i>	Expected May 2026 <i>Ann Arbor, MI</i>
<ul style="list-style-type: none">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 <i>Software Engineer</i>	August 2025 – Present <i>San Francisco, CA</i>
Orchids (YC W25) <i>Growth Engineering Intern</i>	June 2025 – August 2025 <i>San Francisco, CA</i>
<ul style="list-style-type: none">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) <i>Software Engineering Intern</i>	June 2024 – August 2024 <i>New York City, New York</i>
<ul style="list-style-type: none">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 (<i>Go, HTML, CSS, Templ, SQL</i>)	<ul style="list-style-type: none">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 (<i>C++, Naive Bayes Classifier, lldb</i>)	<ul style="list-style-type: none">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 (<i>Python, TCP/UDP</i>)	<ul style="list-style-type: none">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 (<i>React Native, Node.js, Express, Firebase, SQLite</i>)	<ul style="list-style-type: none">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