

Kieran Llarena

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EDUCATION

University of Michigan

Bachelors of Science in Computer Science

Relevant Coursework: Data Structures, Algorithms, Object Oriented Programming, Software Engineering, Software Analysis and Design, Linear Algebra, Statistics, Discrete Mathematics.

Expected: May 2027

Dearborn, MI

EXPERIENCE

Software Engineer Intern

Capital One

Jun 2025 – Aug 2025

McLean, VA

- Reduced Capital One agent call times by **12%** by developing a status badge feature using Angular and Javascript.
- Improved frontend code cleanliness by developing an **ETL pipeline** to deliver transformed API responses.
- Achieved **100% code coverage** through thorough QA testing to support a smooth rollout of new digital features.

Fullstack Mobile Application Developer

Society of Women Engineers UM-Dearborn

Feb 2025 – Mar 2025

Dearborn, MI

- Solo developed a mobile application that streamlined coordination for the annual POWER conference, **supporting 80+ attendees** and substantially reducing manual effort for the Society of Women Engineers at UM-Dearborn.
- Boosted operation efficiency by developing an in-house **digital attendance system** through the mobile app.
- Connected attendees and organizers by building a Google Apps Script integration that enabled **real-time agenda updates via Google Sheets** and allowed organizers to send push notifications directly to attendees.

PROJECTS

OOTD | [Website](#) | *Cloudflare, Typescript, Expo, React Native, Supabase, Nativewind*

Feb 2025

- Deployed a full-scale production mobile app to the iOS App Store with **100+ users**; Achieved a **3x boost in DAU retention** by analyzing user behavior patterns with **Vexo Analytics** and implementing targeted strategies.
- Architected a secure and scalable image uploading pipeline using **Cloudflare Workers**, **Cloudflare Queues**, and the **OpenAI Moderation API**, to deliver a smooth user experience with robust content safety.
- Reduced data load times **100x** by using **optimized PostgreSQL functions** and **Cloudflare Images**.

DependaPou | [GitHub](#) | *Modal, Groq, Next.js, Supabase, Typescript, Websockets*

Feb 2025

- Won **Best Software Developer Tool** and **Best Use of Modal** at Columbia University DevFest 2025 by creating a developer tool that scans and automatically generates PRs to refactor vulnerable or deprecated code.
- Developed a file processing pipeline using Modal Containers and the Groq API to **read entire GitHub repos in just a few seconds**; Connected this system to a dashboard using websockets for real-time refactor breakdowns.

Manny-Bot | [GitHub](#) | *Amazon Web Services, NextJS, KindeAuth*

Jan 2025

- Developed an open source tool to schedule Discord announcements for a **250+ member** student organization.
- Designed an **event publishing microservice** using the AWS EventBridge Scheduler Node SDK to invoke a message publishing microservice with serverless AWS Lambda Functions and **Discord Webhooks**.
- Implemented a storage and retrieval system for image files using AWS S3, ensuring scalable file management.

LEADERSHIP

Co-Founder

Filipino Americans in Tech

Sep 2024 – Present

Detroit, MI

- Leading a **210+ member** non-profit organization to help Filipino Americans break into tech. We provide free resources, mentorship, a job board, and access to a channel of crowd-sourced professional opportunities.
- Enhanced our members networks by organizing events with companies like **Google**, **Amazon**, and **Dreamhaven**.

TECHNICAL SKILLS

Languages: Python, Typescript, Javascript, Rust, C++, HTML/CSS

Developer Tools: Amazon Web Services, Docker, Redis, PostgreSQL, MongoDB, Supabase, Firebase, Redis, Git

Frameworks: Next.js, React, Fastify, Mocha, Expo, Flask, Express.js, FastAPI, React Native, Tokio, Actix-Web

Concepts: Retrieval-Augmented Generation, Agile Methodologies, Rest APIs, Pair-Programming, Mob-Programming