

Jingi Min

Software Engineering / AI/ML

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EDUCATION

University of California, San Diego

GPA: 3.98/4.0

B.S. in Computer Science

Expected June 2027

Graduate Study Plans: M.S. in Computer Science planned for Fall 2027; tentative graduation Spring 2029

Relevant Coursework: Data Structures & Algorithms, OOP, Embedded Systems, Computer Vision, Machine Learning

Awards: SanD Hacks AGNTCY (Multi-Agent System) Track Winner; ECE140B Demo Day 2nd Place

SKILLS

Languages: C++, Python, C, Java, TypeScript, JavaScript, SQL, Assembly, HTML, CSS

Tools/Infrastructure: Git/GitHub, Docker, MySQL, MQTT, Linux, REST APIs

Frameworks/Web: FastAPI, React, WebSockets, OAuth

AI/ML/Data: TensorFlow Lite, scikit-learn, Pandas, NumPy, OpenAI API, LangGraph

EXPERIENCE

Portabase • Open-Source Contributor | TypeScript, Azure

May 2026–Present

- Shipped Azure Blob Storage as a new backend storage provider in a merged open-source PR ([#328](#)), implementing upload, download, delete, copy, and connection-test operations with the Azure Blob SDK and TypeScript.
- Integrated the provider across the full plugin stack, including Zod config validation, React setup form, TypeScript provider registry, and Drizzle/Postgres enum migration while preserving existing S3 and Google Drive flows.

De Anza College • C++ & Calculus Tutor

Sep 2024–Jun 2025

- Tutored **60+ students** in C++ debugging, data structures, and calculus, building independent problem-solving skills through 1:1 sessions and exam preparation.

PROJECTS

IoT Thermal Presence Detection System | C++, Python, TensorFlow Lite, FastAPI, Docker

[GitHub](#)

- Built a privacy-preserving thermal sensor to replace camera-based monitoring, training a TensorFlow Lite Micro model on **10,000** labeled samples and quantizing it to **6.5 KB** at **90.2% accuracy** to fit an ESP32's limited memory.
- Created an ESP32-to-backend data pipeline that streamed thermal sensor readings and predictions over MQTT, processed them through **FastAPI**, and stored room-status and user data in **MySQL**.
- Delivered a live monitoring dashboard with OAuth login, WebSocket-based room-status updates, and ESP32 device controls, deployed through Docker on Render.

TravelAGNTCY | Python, LangGraph, OpenAI API, Docker

[GitHub](#)

- Developed a 4-agent AI travel planner chatbot to skip slow manual trip research, coordinating flight, hotel, activity, and supervisor agents on a 7-node LangGraph workflow to generate complete itineraries in **15.5s average**.
- Passed **20/20 live benchmark** prompts while maintaining reliable coordination between LangGraph, OpenAI API, and SERP API, using a price and rating-based filtering system to rank results before handing them to the agents.

Pukka — Sneaker Authentication System | Raspberry Pi, HTTP, Python, Pi-Camera, AS7263

[GitHub](#)

- Designed a two-node Raspberry Pi pipeline where an iOS app triggers the main node to capture camera/spectral data, fetch load-cell readings from a worker via FastAPI, and return an aggregated authentication verdict.
- Aggregated weight, spectral, and shape signals into one counterfeit check (measuring **12.3% weight**, **5.2% spectral**, **16.1% shape difference**), earning **2nd place** at Art of Product Engineering Demo Day.

FELLOWSHIPS

Break Through Tech AI/ML Fellow

May 2026–Present

- Selected from **4,000+ applicants** for a year-long AI program, studying core machine learning concepts and developing practical skills with Pandas, NumPy, scikit-learn, and Keras through Cornell's ML Foundations curriculum.
- Built and evaluated decision tree and neural network classifiers on 32,000+ U.S. Census records, handling missing and categorical data, examining fairness risks, and achieving **86.2% accuracy** and a **69.4% F1 score**.

BASTA Code2Career Fellow

Mar 2026–Jun 2026

- Selected from 1,500 applicants for 10 weeks of 1:1 mentorship with a Google Software Engineer, solving 50+ DSA problems while learning to choose appropriate data structures and evaluate system design tradeoffs.