

MICHAEL LI

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EDUCATION

- **B.A. in Computer Science, Minor in Finance**, *Boston College, Chestnut Hill (expected May 2027)*
- **Relevant Coursework/Activities:** *Computer Science I & II (Python, Java, Data Structures), Logic and Computation, Web Development (HTML, CSS, JavaScript), Randomness & Computation, Computer Systems (C/C++), Data Science Principles (Python), Algorithms, Topics in Computing Language (Java), Software Engineering, Boston College Computer Science Society*

EXPERIENCES

AI Application Developer

Irvine, CA

LifeTech

May 2025 - October 2025

- Co-designed and developed a FastAPI-based Health Activity Logging API integrated with Open WebUI and Ollama, converting natural language inputs into structured records to help targeted elderly users track and improve their health.
- Built an NLP pipeline and asynchronous database layer using regex, contextual parsing, SQLAlchemy, and SQLite to efficiently extract, store, and retrieve activity over 80 unique activity metrics from text, lists, and tables.
- Produced comprehensive documentation covering system architecture, API specifications, and workflows to ensure maintainability and easy deployment.

LIDAR Research Project Intern

Pittsburgh, PA

University of Pittsburgh

May 2024 - August 2024

- Developed algorithms to convert local LIDAR coordinates to global WGS84 lat/lon coordinates, using bearing estimation and rotation angles for high accuracy.
- Tested various code, which involved writing unit tests to validate accuracy of conversions, implementing Python's logging to track the execution, and integrating YAML configurations to input test coordinates into the algorithm.
- Leveraged RESTful API design principles with JavaScript, React, and Python, facilitating real-time data extraction from LIDAR systems capable of processing up to 10,000 coordinate points per second.

Course Development Intern

Irvine, CA

Coding Minds Academy

June 2022 - August 2022

- Assisted in curriculum development for a cybersecurity course, gaining proficiency in Linux system administration, networking, and fundamental cybersecurity practices.

PROJECTS

FocusHub - HTML, Tailwind CSS, React, NextJS, Firebase, Clerk

- Developed a scheduling web application with task creation and organization features, including a priority bank for high-importance tasks and a leftover bank for previously uncompleted tasks.
- Utilized React, Next.js, and Tailwind CSS to build a responsive user interface, integrating Firebase for real-time data storage and Clerk for secure user authentication.

FitConnect App - Dart, Flutter, Firebase

- Created a fitness app which enabled users to create exercise plans and interact with others through posts. Designed the frontend with Dart and Flutter, creating dynamic user functionality and optimizing user interactions.
- Integrated Google Firebase for user authentication, as well as creating a database that could store over 1,000 users containing personal data, posts, and workout plans.

Scale Counselor - JSON, HTML, CSS, Flask, APIs

- Developed a website with a Python algorithm to generate meal plans based on user weight goals and smart scale data, integrating a Flask server for sub-200ms data processing and JSON for front-end/server communication.
- Utilized Bootstrap for an HTML template, customizing it with CSS to add over 10 interactive and dynamic features.
- Integrated a smart scale API for weight tracking and implemented a time-based system to track weight loss goals. Built a secure user authentication system and a database to store user data.

SKILLS & PROFICIENCIES

Programming Languages: Python, JavaScript, Java, HTML, CSS, C/C++, Dart (Flutter)

Frameworks & Libraries: React, Next.js, FastAPI, Flask, Pandas, NumPy, Tailwind CSS, Open WebUI

Developer Tools: Git, Visual Studio Code, MacVim, VS Code

AI & Databases: NLP, LLMs, Vector Databases (e.g., Pinecone, ChromaDB), SQLite, SQL

Specialized Knowledge: RESTful APIs, Cloud Computing (e.g., AWS, Azure), Linux, LIDAR, Raspberry Pi