

# Micah Chen

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## EDUCATION

### University of Texas at Austin

Austin, TX

*B.S. Electrical and Computer Engineering Honors*

May 2026

- **Coursework:** Software Design and Implementation, Software Lab, Algorithms, Embedded Systems, Embedded Lab, Computing Systems, Circuit Design and Theory, Digital Logic Design
- **Leadership/Activities:** TX Convergent, TX Blockchain, UT IEEE, TX Financial Derivatives, Ignite Texas

## SKILLS

**Programming Languages:** Python, C/C++, Java, JavaScript, SQL, Linux, ARM Assembly, Verilog

**Frameworks:** Django, Node.js, Flask, React, React Native, REST, GraphQL, HTML, CSS, TensorFlow, Pandas

**Databases/Platforms:** AWS EC2, AWS RDS, Render, PostgreSQL, MongoDB, Docker, Kubernetes, Git

## EXPERIENCE

### Technical Co-Founder and CEO

June 2024 – Present

*Harbinger FinTech*

*harbingerfintech.com*

- All-in-one investment management platform for portfolio tracking, analysis, and a personalized AI assistant
- Implemented a scalable backend using Django with **RESTful** API endpoints, **JWT** authentication, Plaid webhooks, middleware for **CORS** and **CSRF**, and **AWS Elastic Load Balancing** to distribute traffic
- Created and managed 40+ models using **Django ORM** within a **PostgreSQL** database, ensuring efficient storage and retrieval of user portfolio and financial data
- Developed a frontend using **React**, incorporating secure user session management with **JWT tokens**. Established a **CI/CD** pipeline with Netlify and implemented over 30 unit tests using **React Testing Library** and **Jest**
- Leveraged **GPT-4** & **Langchain** agents to orchestrate chains execution for fetching financial data and analysis

### Software Engineering Intern

May 2024 – Present

*Arcadis*

*Houston, TX*

- Developed a **full-stack** web application for TxDOT to track and monitor historical and real-time traffic data, enabling better decision-making and resource allocation
- Developed a traffic **anomaly detection** algorithm using **time series analysis** and a **sliding window** approach, analyzing real-time traffic data to identify short-term deviations, flag anomalies, and improve detection accuracy
- Streamlined signals data collection by developing a **PowerApps** solution, improving the efficiency of data entry

## PROJECTS AND ACTIVITIES

### Online Library Management System | Java, JavaFX, MongoDB, Sockets, Multithreading

100 Hours

- Developed a client-server library management system with a **JavaFX GUI** and **socket-based communication**
- Implemented a server architecture where the server handles multiple users simultaneously through **multithreading**, and each user interaction is processed by the server via **object streams**
- Utilized **MongoDB** for persistent data storage, managing collections for users, library items. Incorporated **bcrypt** encryption for passwords in database

### Embedded Systems Game Development | C/C++, Arm Assembly, KiCAD, Keil uVision 5

80 Hours

- Programmed a Galaxy War game on a TM4C micro controller using C/C++ and designed the **PCB** to integrate hardware components
- Implemented LEDs and Sound using a **DAC**, buttons and joystick using an **ADC**, sprites, structs, and a collision detection system
- Utilized infrared communications to interface two microcontrollers for data transfer with the **UART**

### UT IEEE Intelligent Ground Vehicle Competition | C/C++, SLAM, TensorFlow OpenCV, ROS

80 Hours

- Designed software architectures for autonomous navigation, perception, and control systems using **C/C++**
- Implemented **SLAM** algorithms on **OpenCV** which enabled precise mapping of vehicle surroundings and self positioning
- Utilized **Dijkstra's** algorithm to efficiently solve and navigate the greedy/optimal path

## AWARDS

- **Lockheed Martin Engineering Scholar:** Fall 2022 – Present
- **UT-Austin Engineering Honors:** Fall 2022 – Present
- **Arcadis Intern Impact Award:** August 2024