

CAIDEN FUNG

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science (GPA 3.71)

Ann Arbor, MI

Sept. 2022 – May 2025

- **Relevant Coursework:** Operating Systems, Database Management Systems, Data Structures and Algorithms, Web Systems, Computer Security, Video Game Design, Computer Organization, Foundations of Computer Science

Michigan State University

Data Science

East Lansing, MI

Sept. 2021 – May 2022

TECHNICAL SKILLS

Languages: Python, C/C++, C#, SQL, PHP

Tools: Git, Docker, Linux, Unity, WSL, Jira

Technologies: Flask, AWS, MongoDB, API Architecture

Certificates: Google AI Essentials

WORK EXPERIENCE

METER Group

Software Engineer

Pullman, WA

June 2025 - Present

- Implemented device sensor logging, capturing 230k+ daily logs across 28k+ sensors to allow members and user support to track location updates, data uploads, and device errors
- Upgraded data download functionality to support configurable charts, enabling users to download selectively combined data sources across multiple devices
- Developed a feature to format and send real-time custom email alerts, notifying users about critical sensor battery and measurement levels to speed up client response times during emergencies
- Corrected and improved accuracy of a data download service, ensuring data availability for 2,600 groups and organizations
- Enhanced data readability and accessibility by adding customizable settings for measurement filtering, datetime formats, timezones, and unit conversion

University of Michigan - Gerald R. Ford School of Public Policy

Data Engineer

Ann Arbor, MI

Sept. 2024 - May 2025

- Refactored a Python library to better process and match Michigan student data, boosting initial match accuracy by 12% and reducing final incorrect outputs by 91%
- Operated and maintained a data matching pipeline, matching 5.5 million Michigan state government student records with submitted dataset entries to facilitate education policy research
- Designed and deployed a custom AI agent to enrich 1,310 codebook variable definitions, leveraging internal documentation to improve clarity and consistency

TicketSocket

Software Developer Intern

Remote

May 2024 - Aug. 2024

- Migrated a barcode and QR code generator to AWS Lambda and integrated to Amazon API Gateway, speeding up EC2 instances by 15% and eliminating disk usage for generated images
- Automated file type conversion for internal importer tools, increasing supported file types from 1 to 7 and eliminating manual preprocessing

NanoNests

Website Design Intern

Remote

Mar. 2024 - May 2024

- Created a web page featuring a newly released product with multiple purchase options utilizing HTML and CSS
- Refactored website to improve user experience, boosting website clicks by 38%

PROJECTS

EchoTrace | C#, Unity

Mar. 2025 - Apr. 2025

- Spearheaded gameplay, combat systems and logic, game map, and audio design
- Organized and led weekly meetings to discuss playtest feedback, assign tasks to team members, and plan out sprint goals
- Published video game to a public showcase, capturing 1/3 of all votes for "Best Game" award

Healthcare Helper | Python, React, Flask, Gemini 1.5

Sept. 2024

- Integrated a web application using Google AI Breadboard and Cartesia's Sonic API to automate patient interviews and generate reports for medical databases
- Orchestrated 3 Gemini AI agents in a distributed system to log responses and converse with patients
- Won 2nd place for "Best Google AI Breadboard Application" at MHacks 2024