Ethan Tan Jun Wei

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EDUCATION

Carnegie Mellon University   Pittsburgh, PA
Bachelor of Science in Information Systems   Expected June 2026
Intended Additional Major: Computer Science

Relevant Coursework: Fundamentals of Programming and Computer Science (Python), Data Structures and Algorithms (C) Introduction to Web Development (HTML, CSS, Javascript, Git)

WORK EXPERIENCE

Coinhako   Singapore, SG
Software Engineering Intern   May 2023 - Present
- Building technical tools for the firm's proprietary trading system using Python frameworks
- Assisting in scaffolding API endpoints, ensuring seamless communication between the frontend and backend
- Wrote a script that parses data from the firm's database in AWS Timestream
- Proactively identifying and driving optimizations to the trading system based on employee feedback

ZUZ Lab   Pittsburgh, PA
Undergraduate Researcher   Sep 2022 - Present
- Assisting Professor Seth Goldstein on ZUZ, a platform that aims to ensure equitable access to capital
- Conducting research to support the implementation of community currencies on a public ledger
- Educating merchants in Sharpsburg, PA on the functionalities of the platform to facilitate a seamless experience

Carnegie Mellon University   Pittsburgh, PA
Teaching Assistant   Jan 2023- Present
- Teaching Assistant for Principles of Microeconomics to serve my side-interest in economics
- Conduct weekly recitations and host office hours to clarify key concepts taught in lecture

TECHNICAL EXPERIENCE AND PROJECTS

Spotitector (https://github.com/ethantanjw/Spotitector)
Python Application
- Developed an application with a 4-person hackathon team that recognizes an emotion and recommends a song
- Utilized the OpenCV library to deploy computer vision to generate output of a person's emotion
- Parsed data from Spotify API to link songs with various facial expressions in key-value pairs
- Understood various Python frameworks and libraries within a short time span

112 Racer (https://github.com/ethantanjw/112-racer)
Game Application
- Conceptualized and developed an interactive multimodal motorsport racing game
- Implemented dynamic side-scrolling, realistic vehicle physics and functional game AI to enhance the in-game experience
- Utilized the model-view controller framework to implement the application in a logical manner
- Held user testing sessions to validate and iterate on initial MVP

Happy Day Dessert Factory (https://github.com/ethantanjw/Happy-Day-Dessert)
Front End Application
- Conceptualized and developed the front end of a website for Happy Day Dessert Factory in Pittsburgh, PA
- Utilized Javascript frameworks to enhance the interactivity of the website
- Used Figma to create a style guide and user interface to ensure a pleasant user experience

SKILLS AND TECHNOLOGIES

Languages: Python, C, Javascript, HTML, CSS, SQL
Frameworks and Libraries: React.js, Flask, TailwindCSS, Bootstrap
Tools: Git, AWS, Postman, Figma