

# Wen Chen

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## EDUCATION

**Cornell University**, College of Engineering, Ithaca, NY

**Expected Dec 2025**

Masters of Engineering, Computer Science

Links: [GitHub](#), [Portfolio](#)

## Relevant Courses:

Data Science, Operating Systems, Machine Learning, Object-Oriented Programming and Data Structures (Java), Networks, Functional Programming (OCaml), Analysis of Algorithms, Robotics, Database Systems

## WORK EXPERIENCE

**Theralyze AI**, Remote, *UI Intern*

**Jun – Aug 2025**

- Launched internationalization (i18n) features using Flask Babel to support **30+** languages, expanding the application's user base and preparing it for global market entry.
- Engineered a scalable data extraction pipeline for medical records using Pytesseract, EasyOCR, and Dockerized microservices deployed on AWS Lambda, automating the processing of both digital and scanned PDFs.
- Developed checkbox detection logic using OpenCV to fully automate form parsing and annotation workflows, eliminating **100%** of manual review and significantly accelerating document processing speed.

**Georgia Tech Research Institute**, Warner Robins, GA, *Research Intern*

**May – Aug 2023**

- Architected and launched a full-stack inventory application (React, NextJS, TypeScript) that used graph traversal algorithms to digitally map **1,000+** hardware components, resulting in a **50%** reduction in equipment search and utilization time for clients.
- Applied agile development methodologies, leading a team to deliver high-quality software on schedule, which resulted in a **20%** increase in project completion efficiency. Contributed innovative ideas and solutions in team discussions, leading to a **15%** improvement in overall team productivity. Participated in code reviews and enhanced the overall codebase quality.

## PROJECTS

**Chirp** | NextJs, TypeScript, PlanetScale, Prisma, tRPC, Upstash

- Developed a full stack web application, utilizing NextJs, where users can post emojis that updated seamlessly in real-time.
- Employed a type-safe, end-to-end API with **tRPC** to streamline data fetching between the client and server, while using the **Prisma** ORM to accelerate database schema creation and management of the **PlanetScale** database.

**Plastech** | React, Firebase, JavaScript

- Collaborated with a team of 2 peers to develop a website using React that displays amount of plastic that is wasted on a bar chart
- Utilized Firebase to handle and store over **100 MB** of data in plastic waste and using a trained machine learning model to detect the plastic waste

**Alien Invader** | Python

- Collaborated with as a team of 2 to develop an engaging arcade-style game utilizing the Kivy framework to design and implement an intuitive user interface, improving user engagement and accessibility.
- Demonstrated strong object-oriented programming skills by implementing essential game components as classes, enhancing code modularity and maintainability.
- Leveraged coroutines to seamlessly animate in-game elements, enhancing visual appeal and providing players with a smoother gaming experience handling up to **40** in game sprites.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, Javascript, Typescript, GameMaker Language, C++, OCaml

**Certifications:** Autodesk AutoCad Certified 2020, Autodesk Inventor Certified 2021

**Packages/Databases/Framework/Skills:** Web API's, PyTorch, AWS Dynamodb, Numpy, Tkinter, Tailwind CSS, React, HTML, CSS, ExpressJs, SQLite, BootStrap, SQL, Postgresql, NoSQL, Pandas, Git, Docker

**Developer Tools:** Visual Studio Code, Github, Gitlab, Jira