Wen Chen

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY　　　　　　　　　　**Expected Dec 2025**
Masters of Engineering, Computer Science
Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Computer Science, GPA: 3.74
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
- Orchestrated a scalable data extraction pipeline for medical records by implementing Pytesseract, EasyOCR, & **Dockerized microservices deployed on AWS Lambda**, streamlining processing for both digital & scanned PDFs
- Transformed form parsing & annotation workflows by implementing checkbox detection logic with OpenCV, which eradicated **100% of manual reviews,** 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
- Led a 2-person team in developing an engaging arcade-style game using the **Kivy framework** to craft an intuitive user interface, ultimately enhancing user engagement & accessibility
- Demonstrated strong object-oriented programming skills by implementing essential game components as classes, enhancing code modularity and maintainability

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