

Wen Chen

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected May 2025

Bachelor of Science, Computer Science

Dean's List Fall 2022, Dean's List Spring 2023, Dean's List Fall 2023

GPA: 3.724

Relevant Courses:

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

WORK EXPERIENCE

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

May – Aug 2023

- Built a feature-rich website as a full stack using React, Tailwind CSS, NextJS, and TypeScript, leveraging frontend design knowledge to create a visually appealing and responsive user interface from the ground up.
- Employed graph traversal algorithms to produce a digital representation of over **1000** physical hardware parts, enabling clients to visualize the project in a comprehensive table format. Improved in-between time for utilizing the hardware by **50%**.
- 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.

Cornell University, Ithaca, NY, *Teaching Assistant for Database Systems (CS 4320)*

Aug 2024 – Present

- Assisted students during office hours by clarifying and teaching database concepts such as PostgreSQL, I/O cost estimation and theories to improve their understanding of database systems.

PROJECTS

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

- Developed a full stack web application, utilizing NextJs, where users can post emojis and updates in real-time.
- Leveraged tRPC and Prisma to handle the transfer of data between server side and client side and utilizing PlanetScale to store user data and posts enabling real-time updates.

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

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