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Wen Chen

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EDUCATION

Cornell University   **Jan 2025 — Dec 2025**
Master of Engineering in Computer Science   Ithaca, New York
Cornell University   **Aug 2021 — May 2025**
Bachelor of Science in Computer Science, Minor in Applied Economics   Ithaca, New York
GPA: 3.74

WORK EXPERIENCES

Theralyze AI   **Remote (United States)**
Software Engineering Intern   *Jun 2025 — 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 eliminated 100% of manual reviews, accelerating document processing speed

Georgia Tech Research Institute   **Warner Robins, GA**
Software Engineer Intern   *May 2023 — 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

Reimplementation of PatchTST – Python, Pytorch   **May 2025**
- Applied a **transformer-based architecture (PatchTST/64)** to multivariate time-series forecasting tasks such as electricity demand, weather, and traffic patterns, leveraging patching for long-sequence modeling
- Benchmarked performance across **five real-world datasets** (Electricity, ETTh1, ETTm1, Traffic, ILI), achieving results close to published benchmarks and **outperforming prior transformer baselines** on most datasets despite compute constraints
- Optimized training under GPU memory limitations by adjusting model depth, attention heads, and dropout rates, and employed early stopping to mitigate overfitting on large-scale time-series data

Chirp — Typescript, NextJS, Supabase   **March 2023**
- Designed and launched a **real-time social platform** where users interact solely through emojis, delivering an engaging and seamless experience across devices
- 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 Supabase database

Plastech — React, Firebase, Javascript   **October 2022**
- Developed an interactive dashboard in React to visualize plastic waste data through dynamic bar charts, improving accessibility and insight into environmental impact
- Utilized Firebase to handle and store over **100 MB** of data in plastic waste, and used a trained machine learning model to detect the plastic waste

SKILLS

Languages   Python, Java, PostgreSQl, OCaml, Javascript/Typescript, C, C++, HTML/CSS, GameMaker Language
Technologies/Frameworks   Agile, AWS, Git, JIRA, Matplotlib, Numpy, AWS Dynamodb, Numpy, ExpressJs, BootStrap, Docker
                               Next JS, Pandas, Postman, Pytorch, React, REST, Scikit-Learn, Web API's