

Manfred Fong

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[Portfolio](#) / [LinkedIn](#) / [GitHub](#)

Education

University at Albany, State University of New York – Albany, NY
Bachelor of Science in Computer Science, Minor in Informatics

August 2024

Professional Experience

IBM (Sponsored) - GenAI Multimodal User Profile Generator Project

Feb 2024-Present

Software Engineer/Researcher

- Lead the **Python** development of an AI Assistant chatbot utilizing the **LangChain** framework, sponsored by IBM, improving its personalized resume recommendation feature.
- Enabled chatbot to scrape the 5 sites within the 4000 token limit and used 20 batches to scrap 100 sites.
- Achieved 90% context response accuracy by implementing local memory feature with advanced **N.L.P.**
- Optimized for performance, achieved 99.9% uptime; reduced response time by 25%.

Repository: <https://github.com/Teccon1998/GenAIAssistant>

Institute of Electrical and Electronics Engineers (IEEE)

January 2022 - Present

Team Member

- Spearheading over 250 hours of hands-on mastery of programming fundamentals, data structures & algorithms
- Conducted programming training workshops on API and Web Development using Python, Java, JavaScript
- Liaison between industry professionals from IBM, Celsius, and Wolfjaw Studios, to secure sponsorships, mentorship programs, and workshops

SpaceTime (TypeScript, Angular, Tailwind) - Full Stack Event Planning Web Application Feb 2022- May2022

Lead Frontend Developer

- Spearheaded frontend development, contributed 400+ lines of code. Implemented code splitting to reduce initial load time by 30% and lazy loading images to decrease data usage by 25%.
- Enabled account holders to plan/organize social events of hundreds of participants
- Served as Scrum Master for 2-week in an 8-week Agile team project

Personal Projects

Personal Portfolio Website

- Designed and developed using **ReactJS, TailwindCSS, Node.js, and Vite**; implemented server-side rendering improving initial load times by 35%.
- Implemented fluid layouts and media queries, ensuring optimal viewing experience across 7 device types ranging from desktops (1920px) to mobile (320px).
- Incorporated an interactive and user-friendly interface featuring animations, transitions, and intuitive navigation to engage visitors and highlight key content.

Repository: <https://github.com/BasicallyManny/Personal-Portfolio-Website>

Assembler Program (Java)

- Converted thousands of interrelated data points (100MB) into a single equation through interpolation.
- Incorporated an lexical analyzer for encoding and decoding, with internal storage up to 1000 tokens
- Implemented error detection to report syntax errors, undefined symbols, and invalid instructions

Skills

React (Proficient), JavaScript (Proficient), TypeScript (Proficient), HTML (Expert), CSS (Expert), Python (Proficient), Java (Proficient), Node.JS (Proficient), SQL (Proficient), MongoDB (Proficient), LangChain (Intermediate), Prompt Engineering (Intermediate), Angular (Intermediate), Git (Proficient), Debugging/Testing