

Manfred Fong

Bachelor of Science
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GitHub
LinkedIn Profile

EDUCATION

•Bachelor of Science in Computer Science, Minor in Informatics

2020-24

University at Albany, New York

PERSONAL PROJECTS

•IBM Sponsored GenAI Multimodal User Profile Generator *Lang-chain Enabled General AI prompt based assistant*

GitHub

Feb 2024-August 2024

- Enabled chat-bot to scrape the five 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%.

•Personal Portfolio Website

My digitized resume

GitHub

- Incorporated an interactive and user-friendly interface featuring animations, transitions, and intuitive navigation to engage visitors and highlight key content.
- Implemented fluid layouts and media queries, ensuring optimal viewing experience across seven device types ranging from desktops (1920PX) to mobile (320PX)
- Technology Used: Tailwind, React.js, Bootstrap, Vite.

•SpaceTime

An Angular-based web application that allows users to plan/organize social events.

GitHub

- 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 two weeks in an 8-week Agile team project
- Technology Used: Angular, TypeScript, Tailwind.

•Assembler Program

An assembler program that takes text as input and outputs bits corresponding to that text.

GitHub

- Converted thousands of interrelated data points (100MB) into a single equation through interpolation.
- Incorporated a 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
- Technology Used: Java

EXPERIENCE

•Institute of Electrical and Electronics Engineers

Jan 2022 - Aug 2024

Team Member

In-Person

- Spearheaded 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

TECHNICAL SKILLS AND INTERESTS

Languages: Java, Python, JavaScript, TypeScript, HTML+CSS

Libraries :Python Libraries,Tailwind-CSS, Bootstrap, ExpressJS

Web Dev Tools: NodeJS, VS-code, Git, GitHub

Frameworks: Lang-Chain, ReactJS, Angular

Cloud/Databases:MongoDB, Relational Database(MySQL)

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.

Areas of Interest: Web Design and Development, Artificial Intelligence, Prompt Engineering.

Soft Skills: Problem-Solving, Self-learning, Presentation, Adaptability, Communication, Teamwork