

Manfred Fong

Bachelor of Science
University at Albany, New York

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GitHub
LinkedIn Profile
Portfolio

PROFESSIONAL SUMMARY

Full-Stack Developer with proven experience in building responsive web applications and scalable backend systems. Proficient in modern frontend frameworks (React, TypeScript) and backend technologies (Python, FastAPI, MongoDB). Skilled in creating intuitive user interfaces, designing RESTful APIs, and implementing AI solutions to deliver high-performance applications with excellent user experiences.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL, HTML/CSS
Frameworks & Libraries: React, FastAPI, LangChain, Express.js, Angular, Tailwind CSS, Bootstrap
Tools & Databases: MySQL, PostgreSQL, MongoDB, Google Cloud, Railway, Vercel
Concepts: Problem solving, Self-learning, Communication, Teamwork, Adaptability

KEY PROJECTS

- Gideon

Full Stack Developer / Job Application Tracker

Mar 2023 - Present

- Architected and developed the backend for a job tracking platform using React, FastAPI, and MongoDB, supporting full **CRUD** operations via **RESTful APIs**
 - Implemented **JWT-based** authentication and secure route protection with FastAPI, ensuring user data privacy and **99.9%** uptime
 - Developed modular endpoints powering an interactive analytics dashboard and an event-driven calendar system, delivering real-time insights into job search trends and reducing missed interviews by over **50%**
 - **Tech Stack:** React, TypeScript, Python, Tailwind CSS, Vite, Node.js, FastAPI, Mongo DB, Vercel, Google Cloud
- IBM GenAI Multimodal User Profile Generator

Lead Developer / LangChain-enabled AI assistant

Feb - Aug 2024

GitHub

- Developed a chatbot to scrape and analyze content from up to **100 websites**, effectively managing token constraints
 - Achieved **90% response accuracy** by implementing local memory features and advanced NLP techniques
 - Optimized performance, maintaining **99.9% uptime** and reducing response time by **25%**
 - **Tech Stack:** Python, OpenAI, LangChain, MongoDB, TavilyAI
- Algorithms Visualizer

Solo Developer / Sorting algorithm visualization tool

Mar - Jun 2023

- Optimized performance, achieving a **35% faster** load time with **95+** performance scores across devices
 - Enhanced visualization with real-time color-coded animations and interactive step-by-step controls
 - Deployed via Vercel with responsive design across **7+ screen sizes** and custom routing
 - **Tech Stack:** React, TypeScript, Tailwind CSS

PROFESSIONAL EXPERIENCE

- Institute of Electrical and Electronics Engineers (IEEE) - UAlbany Student Branch

Jan 2022 - Aug 2024

Technical Workshop Coordinator & Web Developer

In-Person

- Served as founding team member of Hackadamian, UAlbany’s now annual hackathon, establishing event structure and technical infrastructure
 - Designed and developed the official Hackadamian website using React and Tailwind CSS, increasing registration by **40%**
 - Conducted **250+ hours** of programming workshops on APIs and web development for **100+** students
 - Served as liaison between industry professionals from IBM, Celsius, and Wolfjaw Studios to secure sponsorships and technical partnerships

EDUCATION

- Bachelor of Science in Computer Science, Minor in Informatics

2020-24 (Graduated August 2024)

University at Albany, New York

ADDITIONAL INFORMATION

Coursework: Data Structures & Algorithms, Operating Systems, OOP, Database Management, Software Engineering
Interests: Web Development, Artificial Intelligence, Prompt Engineering