

JAMIE FONG

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EDUCATION

Vanderbilt University - Bachelors of Science, Computer Science, Mathematics

Aug. 2023 - May 2027

- **GPA:** 3.67
- **Related Coursework:** Program Design and Data Structures, Intermediate Software Design, Algorithms, Programming Languages, Web-based System Architecture, Machine Learning

TECHNICAL SKILLS

Front End | React, Javascript, TypeScript, NodeJS, Bootstrap, HTML, CSS, styled-components

Back End | Java, C++, MongoDB, Express, bcrypt, FastAPI, Flask, SQL

Mobile | Flutter, Dart, Isar Database, Firebase

AI | Python, Langchain, Retrieval-Augmented Generation (RAG)

Developer Tools | Git, npm

EXPERIENCE

Software Engineer | Arrowz

May 2025 - Present

Emotional Reasoning App

Python | LangChain | Flutter | Dart | FastAPI

- Designed and implemented multi-stage AI emotional reasoning chatbot coach using LangChain and OpenAI GPT-4, boosting user retention by 31% and engagement by 47%
- Designed UI for tracking emotions over time and AI generated summaries of conversations
- Coordinated between design, emotional science, and development teams to maintain project vision and ensure timely delivery of product

Undergraduate Teaching Assistant | Vanderbilt University

Jan 2025 - Present

Program Design and Data Structures Class

Java

- Conducted weekly office hours to assist over 100 students with programming assignments
- Graded programming assignments and exams, providing detailed feedback on correctness, efficiency, and readability of code

PROJECTS

Chicago Law Chatbot

Chatbot Q&A For Chicago Law

LangChain | RAG | Python | FAISS

- Created an AI Chatbot using Langchain and Retrieval-Augmented Generation (RAG) to answer user queries based on Chicago's Law
- Implemented semantic retrieval using FAISS on the Chicago Municipal Code to support legal Q&A via an AI chatbot

CourseFlix

Vanderbilt Course Scheduler Site

TypeScript | JavaScript | Puppeteer | SQL

- Automated data extraction of 3,800+ courses from the Vanderbilt YES system using Puppeteer, ensuring 100% data accuracy for the platform's course catalog.
- Designed and implemented RESTful API endpoints using Node.js and TypeScript to fetch and filter course data based on user-defined parameters.

Funamatics

Math Practice Web Application

JavaScript | React | MongoDB | Node.js | bcrypt | Bootstrap

- Developed web application with set of math problems using MERN stack
- Backend used Python to verify correctness of answers to math problems