Matthew McAuley

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EDUCATION

Cornell University   Aug. 2022 – Dec. 2025
Bachelor of Science in Computer Science   *Ithaca, NY*
GPA: 4.16/4.3 | **Coursework:** Functional Programming, Machine Learning, Analysis of Algorithms, Database Systems

TECHNICAL SKILLS

Languages: Python, Javascript, Typescript, C#, Java, OCaml, C++, C, Assembly, HTML, CSS, SQL
Tools: Git, GitHub, Docker, Redis, Snowflake, PostgreSQL, SQLite, AWS, Oracle Cloud, Postman, DBeaver
Libraries/Frameworks: .NET, React, Expo, Flask, FastAPI, SQLAlchemy, Langchain, NumPy, Pandas, PyTorch

EXPERIENCE

Software Developer Intern   June 2025 – August 2025
S&P Global   *New York, NY*
- Integrated FastAPI GenAI service into Real-Time Index Platform for 24/7 chatbot support and status monitoring
- Configured QA test framework using Langchain and Pandas, automating API regression tests with LLM validation
- Engineered system prompts to correct repeated hallucinations and presented AI initiatives to over 300 employees
- Constructed MCP server for sending automated email alerts over SMTP, detailing error info and LLM suggestions
- Established and tested browser automation tools enabling AI Agents to handle recurring workflows via Playwright

Software Engineer Intern   June 2024 – August 2024
Octus (Formerly Reorg)   *New York, NY*
- Developed C# API for retrieving and organizing CLO market data into multi-level tables each with unique insights
- Optimized data retrieval with Redis caching, reducing page load times from 5s to under 75ms after initial request
- Created NUnit integration tests with complete coverage, ensuring proper API functionality after codebase changes
- Mapped Snowflake loan DB with 3.2M records of financial metrics to table fields defined by Postgres relationships
- Cooperated with product and front-end teams to complete and launch CLO website used by 35k clients worldwide

Software Developer   August 2023 – May 2024
Cornell Cup Robotics   *Ithaca, NY*
- Consulted major robotics company to design low-cost, educational robots for use in over 2,000 universities globally
- Collaborated with 30+ students across 4 subteams, with weekly scrum meetings and regular progress presentations
- Designed website with Flask backend allowing for wireless connection and programming of onboard microcontroller
- Implemented ReactJS GUI for intuitive pairing, movement, blockly coding, script writing, and location graphing
- Built overhead vision system using April Tags to track robot ID, location, and orientation relative to other objects

PROJECTS

GymBuddy
- Fitness companion mobile app for custom workout programming, dynamic exercise displays, and music integration
- Developed UI using Expo, React Native, and Tailwind, as well as a Swift native module for the timer Live Activity
- Utilized Spotify Web API with OAuth2 for user authentication, providing seamless and intuitive media control
- Implemented SQLite DB to store workout plans and exercises, with AsyncStorage for tokens and app state recovery

Exercise Engine
- Lead 5-person team in designing full-stack website for querying exercises and returning the most similar alternatives
- Created Flask API with SVD text mining and cosine similarity to measure relationships between descriptions
- Programmed HTML, CSS, and JS frontend allowing for API requests, applying filters, and neatly displaying results
- Used Selenium to web-scrape JSON dataset and Docker to containerize for deployment on an Oracle Cloud instance

To-Do Manager
- Website for managing projects and their respective 'To-Dos', each with a title, description, priority, and due-date
- Constructed React frontend in Typescript with React Router for navigating between sign up, login, and home pages
- Built Flask API that interracts with the DB and handles user authentication using JWTs stored in browser cookies
- Designed SQLAlchemy DB for persisting user data and containerized app with Docker for hosting on OCI instance