Matthew Muranaka

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Experience

Backend Engineer Intern, Hyphenova   Feb 2025 - May 2025

Technologies: Docker, Python, FastAPI, PostgreSQL, Git

- Attend regular meetings, communicate progress updates, and collaborate closely with the backend team, including other interns and experienced developers.
- Develop and test assigned endpoints, designing appropriate schemas for parameter handling, querying the database for persistent updates, and storing files in S3 buckets when needed.
- Submit code changes using git, appropriately branching for new work and submitting well-documented pull requests.

Event Manager, Office of Event Services   Oct 2022 - Present

- Lead production crew in setting up and dismantling event equipment, including audio-visual equipment, tailored to a client's requests.
- Communicate with clients throughout events to satisfy their needs, making critical decisions in real-time to achieve client satisfaction while adhering to organizational regulations.
- Meet clients' audio and visual needs by operating mixers, projectors, and managing equipment during events to provide a high-quality event experience.

Projects

Spotify-Inspired Portfolio Website | Flask, Supabase, HTML, Tailwind CSS

Link to project: https://matthew-muranaka.com

- Built pages modeled after Spotify's design, customizing the home, playlist, and profile pages to display personal information and using Flask endpoints to retrieve relevant data.
- Constructed a database schema to store skills, experience, and other personal details, enabling easy addition, updates, and deletion of information on the site.

Professional Basketball Application | Dart, Flutter

A front-end application for information about professional basketball teams and players.

- Utilized layered widgets to implement an engaging user interface, including page transitions, and stateful widgets for dynamic data updates.
- Requested NBA team, standings, and player information from a RESTful API service to provide dynamic, real-time statistics.
- Persisted data across application launches to retain user information and static statistics, reducing the request load on the HTTP server.

Complete Machine Learning Pipeline | Python, Scikit-Learn, Pandas

With a partner, developed a complete pipeline for multinomial classification on a dataset of 1.2 million samples.

- Processed the data and applied common analysis techniques like PCA and cluster analysis to uncover underlying relationships in preparation for model training.
- Explored the performance of machine learning models, conducted a grid search to optimize parameters, and exported the pipeline to PMML format for deployment.

Education

Illinois Institute of Technology   Spring 2025

Master of Artificial Intelligence, Bachelor of Science in Computer Science   GPA: 3.80

Relevant Courses: Data Structures and Algorithms, Mobile Application Development, Database Organization

Skills

Programming Languages: Python, C, Dart, R, Java, JavaScript, SQL (MySQL / PostgreSQL), HTML, CSS
Technologies: FastAPI, Flask, Django, React, Flutter SDK, Tailwind CSS
Tools: Docker, Postman, Git