

# Matthew Muranaka

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## Experience

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### 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

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

Link to project: <https://matthew-muranaka.up.railway.app>

- 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

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### 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

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**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