Michael Rigali

🌐 **Portfolio Website: www.michaelrigali.com**

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Education

Oregon State University: Bachelor of Science in Computer Science **Summer 2021 - Winter 2025**

Honor Roll, ROTC Class Top Cadet, OSU Programming Microcredential, OSU Leadership Academy

Technical Skills

Languages: Python, TypeScript, Java, SQL

Frameworks/Libraries: Flask, React.js, Node.js, Express.js, Redux, Django

Tools/Technologies: Git, Docker, MongoDB, Heroku, Webpack, NPM

Databases: MongoDB, MySQL, CSV-based data handling

Other: RESTful APIs, CI/CD, Microservices, UI/UX Design, Calculus, Discrete Math, Agile Environments, VCS

Professional Experience

Gnarled Helix **Fall 2023 – Fall 2024**
Software Engineer Intern - TypeScript, React, Redux *Boston, MA*

- Designed and implemented AI behaviors, animation systems, and real-time UI components for an educational video game.
- Wrote technical documentation on in-game mechanics, simplifying complex software concepts for educational use.

Code And Coffee **Spring 2024 – Fall 2024**
Associate Web Developer - JavaScript, CSS *Baltimore, MD*

- Developed dynamic and responsive web features with animations, improving user experience/engagement.
- Applied UI/UX design principles to enhance accessibility, usability, and inclusivity

Open Source Contribution **Winter 2025 – Present**
NASA Data Planetary System - Java *Baltimore, MD*

- Developed a progress tracking feature for file validation, optimizing real-time feedback and user experience.
- Enhanced LocationValidator.java to efficiently count files and print progress updates with minimal performance impact.

Personal Projects

BarSetter **Ongoing**
Mobile Exercise Accountability Application - React Native, TypeScript

- Implementing a co-opetition fitness model where users track and challenge workouts with real-time data visualization.
- Designed React Native UI components for tracking fitness activity and generating dynamic leaderboards.

Stock Market Trading Using AI Senior Capstone **Winter 2025**
Machine learning and genetic algorithms to optimize trading strategies - Python, PyTorch

- Integrated market data from the Alpaca API to enable real-time stock trading and portfolio management within the application.
- Enhanced the GUI for an AI-driven stock trading system using Streamlit, improving user interaction and data visualization.

PokēMart **Fall 2024**
MERN Stack Marketplace for trading, listing, and managing Pokēmon Cards

- Implemented JWT authentication, image handling with Cloudinary
- Axios for client-side HTTP requests, and Mongoose for back-end validation, robust CRUD operations.

Graduate Readiness Exam VocabExpander **Summer 2024**
Flask, Python Microservices Stack

- Leverages Flask microservices with distinct endpoints to optimize scalability, modularity, and maintainability.
- Streamlined CI/CD with Heroku, automating deployment and integrating real-time data analytics with CSV datasets.