

# MICHAEL RIGALI

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## Education

**Oregon State University: Bachelor of Science in Computer Science**

**Winter 2025**

*Honor Roll, ROTC Class Top Cadet, Competition Boxing Team, OSU Programming Microcredential, OSU Leadership Academy*

## Technical Skills

**Languages:** Python, JavaScript/TypeScript, Java, SQL, Ruby, Kotlin

**Frameworks/Libraries:** Flask, React.js, React Native, Node.js, Express.js, Redux, Django, Ruby on Rails, Selenium

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

**Databases:** MongoDB, MySQL, CSV-based data handling

**Other:** RESTful APIs, CI/CD, Microservices, UI/UX Design, Agile Environments, VCS, HTML, CSS, Problem Solving

## Professional Experience

**Gnarled Helix**

**Fall 2023 – Fall 2024**

*Software Engineer Intern - TypeScript, React, Redux*

*Boston, MA*

- Developed a scalable, educational video game in TypeScript with React, Redux, and modern Webpack workflows.
- Integrated advanced state management using RTK and enhanced accessibility to ensure inclusion.
- Implemented enemy AI behaviors, animation systems, and interactive UI components, emphasizing performance optimization.
- Authored technical documentation and collaborated in an Agile environment.

**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 Pokémon 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.