

MICHAEL RIGALI

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Education

Oregon State University: Bachelor of Science in Computer Science

2025

Honor Roll, OSU Programming Microcredential, OSU Leadership Academy

Experience

Gnarled Helix

January 2024 – Present

Software Engineer Intern

Boston, MA

- Web-based programming-focused educational video game written in TypeScript with scalable and testable code.
- Built out enemy behavior, animation sequences, UI, and in-game documentation with routine code reviews.
- Translated complex technical concepts into user-friendly documentation and tutorials, enhancing educational outcomes.
- Worked with React, Redux, RTK, and a wide variety of other NPM packages in a modern Webpack build environment.

Code And Coffee

August 2024 – Present

Associate Software Engineer

Baltimore, MD

- Enhanced UI/UX by developing dynamic, responsive website features using JavaScript and CSS animations, improving user engagement and interaction while collaborating with a team of developers for maintenance and optimization
- Led formal sessions, demonstrating leadership and public speaking skills, while fostering community engagement by guiding peers through technical discussions.

Technical And Professional Skills

Languages: Objective-oriented programming (OOP), Python, JavaScript, TypeScript, Java, SQL, HTML, CSS

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

Tools/Technologies: Git, Docker, MongoDB, Heroku, Webpack, NPM, Cloudinary, Multer, Spring

Databases: MongoDB, MySQL, CSV-based data handling

Version Control: Git, GitHub, GitLab

Deployment: AWS, Heroku, Continuous Integration/Delivery (CI/CD), Agile, Scrum

Soft Skills: Communication, Problem-Solving, Collaboration, Adaptability, Critical Thinking, Leadership

Other: RESTful APIs, JWT Authentication, Microservices, UI/UX Design, Accessibility & Inclusivity Heuristics

Personal Projects

Portfolio Website: www.michaelrigali.com

PokēMart — MERN Stack

November 2024

- * Full-stack web application using React.js, Node.js, Express, and MongoDB for listing, trading, managing Pokémon cards.
- * Dynamic user authentication and authorization via JWT, ensuring secure user access.
- * Image uploads with Multer for handling multipart form data, and optimized image storage using Cloudinary.
- * MongoDB database schema, including indices to optimize query performance and data retrieval.
- * Axios for client-side HTTP requests, and Mongoose for back-end validation, ensuring robust CRUD operations.
- * RESTful APIs and responsive and dynamic user interfaces with React Hooks for efficient state management.

VocabExpander — Flask, Python Microservices Stack

May 2024

- * Software Engineering capstone project built to enhance vocabulary retention for GRE test takers.
- * Agile methodologies for collaborative development in group settings.
- * Microservice architecture with distinct endpoints to optimize scalability, modularity, and maintainability.
- * Streamlined continuous integration and continuous delivery (CI/CD) with Heroku, automating deployment pipelines
- * Leverages CSV datasets for real-time data analytics.
- * Inclusive UI incorporating feedback loops, usability heuristics, and accessibility standards.