

# MICHAEL RIGALI

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## Education

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

**2025**

*Honor Roll, OSU Programming Microcredential, OSU Leadership Academy*

## Experience

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**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

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**Languages:** Object-oriented programming, 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

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Portfolio Website: [www.michaelrigali.com](http://www.michaelrigali.com)

**PokéMart** — 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.