

MICHAEL ZANDONELLA

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EDUCATION

Oregon State University <i>Bachelor of Science in Computer Science 3.98 GPA</i>	Corvallis, OR <i>Expected August 2026</i>
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EXPERIENCE

Computer Science Peer Educator <i>College of Engineering, Oregon State University</i>	October 2025 – Present Corvallis, OR
<ul style="list-style-type: none">Improved student proficiency in programming logic and algorithms by tutoring Computer Science concepts and bridging knowledge gaps across languages using guided problem-solving and conceptual questioningIncreased student effectiveness in solving programming problems by analyzing and debugging code, explaining algorithmic reasoning, and applying foundational CS conceptsMaintained academic integrity and an engineering mindset by guiding students through solutions using targeted questions rather than providing direct answers	
Web Assistant <i>OSU Beaver Store</i>	June 2024 - July 2025 Corvallis, OR
<ul style="list-style-type: none">Processed 70-300+ weekly orders with high accuracy, adapting to seasonal workload fluctuations.Edited 500+ product photos and uploaded hundreds of listings, ensuring consistent formatting and collaborating with the Website Specialist to maintain web content quality.Reviewed and managed thousands of digital product listings to ensure accuracy, formatting consistency, and up-to-date availability across the online catalog.	

PROJECTS

CatCall <i>JavaScript, React, Node.js, Express, Docker, MongoDB, Tailwind CSS</i>
<ul style="list-style-type: none">Built a full-stack Tinder-style cat adoption app with uploads, likes, and profile matching to connect adopters with cats more efficiently.Increased scalability and maintainability by containerizing backend services with a Docker-based Node.js microservice architecture.Developed a location and preference-based recommendation engine using geocoding, scoring, and filtering to improve adoption matches.

Issue Navigator <i>JavaScript, HTML, CSS</i>
<ul style="list-style-type: none">Accelerated GitHub issue and PR workflows by designing a Chrome extension with keyboard shortcuts and advanced filtering, reducing navigation time for contributors and maintainersEnhanced usability for active repositories by integrating the GitHub API with optional OAuth 2.0 authentication, extending rate limits and allowing smoother navigation through thousands of issues and pull requestsImproved speed and reliability through local data caching with Chrome storage, enabling fast, secure, and consistent browsing sessions.

CAT Label Maker <i>Python, fpdf2</i>
<ul style="list-style-type: none">Designed a command-line tool to generate printable PDF labels with product codes and images, streamlining organization in small retail backstock roomsReduced paper waste by implementing a two-column A4 layout in fpdf2, improving efficiency and maximizing label output per sheetSimplified workflows with a consistent, user-friendly format for batch label creation and inventory organization

SKILLS

Languages: JavaScript, Python, C/C++, HTML/CSS, SQL
Frameworks: React, Astro, Express, Node.js, Tailwind CSS
Databases: MongoDB, MySQL
Developer Tools: Git, GitHub, VS Code, Linux, Docker, Vite, Vitest, Nginx