

Parker Lemery

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EDUCATION

The Ohio State University, College of Engineering
Bachelor of Science in Computer Science & Engineering
Specialization: Artificial Intelligence

Columbus, Ohio
Expected Graduation: April 2028
Dean's List: 3 Semesters - GPA: 3.791

WORK EXPERIENCE

AI Trainer **May 2025 – Present**

Outlier AI | Remote

- Designed 200+ calculus problems to test four large language models, iteratively refining problem complexity and structure to achieve approximately 12.5% model failure rate.
- Created custom evaluation rubrics categorizing errors as catastrophic failures, minor calculation mistakes, or formatting and display issues.
- Analyzed failure patterns to identify weaknesses in AI mathematical reasoning and provide actionable feedback for model improvement.

Lead Pizza Chef **June 2021 – August 2024**

Cucina Antica | Shelburne, VT

- Oversaw the daily operations of the pizza kitchen, ensuring timely and high-quality preparation of a wide range of pizza offerings.
- Led a team of 4 kitchen staff, delegating tasks and maintaining a collaborative and efficient work environment.
- Trained 6 new staff for positions throughout the kitchen to maximize productivity.

PROJECTS

Academic Performance App & Grade Tracker **July 2025 – Present**

Tech Stack: Swift, SwiftUI, PDFKit, Vision | JavaScript, Node.js, Express.js | OpenAI API, Canvas LMS API

- Built full-stack iOS App with SwiftUI frontend and Node.js/Express.js backend, deployed to Render cloud platform for secure API proxy architecture and continuous availability.
- Integrated OpenAI GPT-4o-mini large language model via Express.js backend proxy for natural language processing and intelligent document parsing using structured prompt engineering for real-time grade synchronization.
- Developed multi-modal document processing pipeline using Apple's Vision framework and PDFKit for optical character recognition and AI-driven structured data extraction from academic syllabi.
- Engineered predictive analytics calculator with interactive scenario modeling and sensitivity analysis, enabling students to simulate "what-if" grade outcomes and optimize academic performance.

Wheelchair Assistive Device **January 2025 – April 2025**

Onshape

- Lead Engineer for an assistive device project focused on designing and implementing a ratchet mechanism to reduce upper body strain and improve wheelchair propulsion efficiency for individuals with mobile disabilities.
- Directed mechanical design, prototyping, and testing phases to ensure functionality, safety, and ease of use.
- Collaborated with a multidisciplinary team to design, test, and refine the ratchet mechanism for reliable and accessible real-world use.

Real Time Currency Converter **June 2023 – August 2023**

Tech Stack: JavaScript, HTML, CSS | ExchangeRate API

- Built real-time currency converter web application using JavaScript, HTML, and CSS with live exchange rate data fetched from ExchangeRate API for 5 major global currencies.
- Implemented asynchronous API calls with `fetch()` and `async/await` to retrieve and display current conversion rates.
- Designed responsive UI with dynamic form validation and error handling.

SKILLS

Professional Skills | Team Leadership, Collaboration, Communication, Time Management, Critical Thinking.

Languages & Frameworks | Swift, Java, JavaScript, Python, MATLAB, HTML, SwiftUI, Node.js, Express.js, PDFKit, Vision.

Tools & Platforms | Git, AWS, Render, Xcode, VS Code, Claude Code, OpenAI API, Canvas LMS API, REST APIs, JSON.