Reiss Oliveros

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EDUCATION

University of Portland — Portland, OR
Bachelor of Science in Computer Science — *Aug. 2023 – May 2027*

- Relevant Coursework: Data Structures, Machine Learning, Software Engineering, Computer Architecture, Linux/Unix Tools, Linear Algebra, Analysis of Engineering Data

EXPERIENCE

Undergraduate Research Assistant — Jan. 2025 – Present
University of Portland — *Portland, OR*

- Developed an AI-powered chatbot tutor for the undergraduate Data Structures course.
- Integrated Retrieval-Augmented Generation (RAG) to improve response quality and ensure verifiable sources.
- Modified RAG workflow to augment the LLM's responses based on previous LLM answers.
- Analyzed LLM-generated answers across multiple augmentation stages using synthetic datasets.

Computer Science Course Assistant — Jan. 2025 – Present
University of Portland — *Portland, OR*

- Provided help, guidance, and insight to students in regards to topics in data structures.
- Graded and gave detailed feedback on students' assignments.
- Collaborated with professors to tailor instruction and enhance student learning outcomes.
- Helped students with questions or struggles outside of class time.

PROJECTS

Nurse-Patient ChatBot Simulator | *Python, HTML, CSS, JavaScript* — Jan. 2025 – Present

- Worked in a group of four to develop a web-based simulation for nursing students to practice patient interactions using AI-driven chat.
- Built the backend with Express.js and implemented routing for seamless user interaction.
- Implemented LangChain.js for robust natural language processing and response augmentation.
- Developed a Python script to preprocess and store vector embeddings in ChromaDB.
- Integrated a modified Ollama LLM to enhance contextual chatbot responses.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, MIPS Assembly, SQL (MySQL), JavaScript, Rust, Haskell, Bash, HTML/CSS
Frameworks: Node.js, Express.js, JUnit, LangChain
Developer Tools: Git, GitHub, VS Code, Visual Studio, IntelliJ, Eclipse, Ollama, UV Package Manager
Libraries: pandas, NumPy, matplotlib, sentence-transformers, React.js