

Karissa Waterworth

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Experience

Product Owner - Kolar Design Inc

June 2024 - January 2026

- > Led development of a SaaS product delivering actionable insights to architects and interior designers, taking it from early prototypes to production-ready systems with a focus on reliability, scalability, and maintainability.
- > Served as product owner and lead engineer, defining product vision and roadmap while aligning technical execution with short and long-term goals.
- > Built and deployed AWS cloud infrastructure, emphasizing operational reliability, maintainability, and secure handling of data; managed version control and issue tracking with GitHub.
- > Operated in a self-directed role, owning technical architecture, system design, and delivery outcomes while collaborating with an interdisciplinary team to deliver software that met user expectations and technical standards.

Thesis Research - Artificial Intelligence

February 2022 - May 2024

- > Designed, developed, and evaluated a hybrid, neuro-symbolic semantic search system for research papers in artificial intelligence.
- > Integrated concepts from systems theory, psychology, creativity, and entrepreneurship to explore innovative approaches in AI research.
- > Presented and defended thesis to a committee of professors.

Full Stack Web Development - WCIW/D

February 2020 - May 2024

- > Developed a custom PHP WordPress plugin to automate the collection and posting of global event data, streamlining workflows and improving process efficiency by over 10x.
- > Collaborated with an international advisory board of several creative professionals from various countries across 6 continents to gather feedback and ensure the software's adaptability and relevance to a global audience.

Skills

Languages / Tools

- > Python
- > SQL
- > JavaScript
- > HTML
- > CSS
- > Git
- > Java
- > C#
- > PHP
- > C++
- > Answer Set Programming

Other

- > Full Stack Development (Django, PHP)
- > React (learning)
- > System Architecture & Design
- > Data Modeling
- > API Development
- > LLM Integration
- > Scalable Applications
- > Research & Technical Documentation
- > Experimental Design
- > Knowledge Representation & Reasoning
- > Human Centered Design

Education

Miami University

August 2019 - May 2024

May 2024

- > Master of Science - **Computer Science**

May 2023

- > Bachelor of Science - **Software Engineering**
- > Bachelor of Science - **Computer Science**
- > Certificate - **Entrepreneurship / Creativity**