

KARISSA WATERWORTH



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Summary

I invent and deliver systems that solve complex problems, bridging technology, user needs, and long-term strategy. I thrive in the space between what exists and what could be, turning ambiguity into scalable, sustainable solutions.

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**

Core Competencies

- > Full Stack Web Development
- > Modular System Design
- > MVC / MTV Architecture
- > Automation-oriented Systems
- > Design Thinking / Creativity / Innovation

Languages & Frameworks

- > Python (Django)
- > JavaScript
- > HTML / CSS
- > Git / GitHub

Additional Experience

- > Java
- > C#
- > C++
- > PHP
- > SQL (SQL Server, MySQL)
- > AI / Machine Learning / Logic Programming

Experience

Data Scientist / Product Owner - Kolar Design Inc

June 2024 - Present

- > 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.
- > Refactored prototype code and designed modular, reusable components and extensible data models to support multiple clients, automation, and consistent behavior.
- > 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.

World Creativity & Innovation Week / Day

February 2020 - May 2024

- > Developed a custom 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.