KARISSA WATERWORTH
AGENT OF CHANGE

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PERSONAL STATEMENT

With a knack for tackling challenges head-on, I bring a unique blend of technical expertise and innovative thinking to the table. From my roots as a self-taught, full-stack web developer to my current research in neuro-symbolic AI, I strive to be a catalyst for transformative solutions, harnessing technology to create a more intentional and sustainable world.

EDUCATION

MIAMI UNIVERSITY
(August 2019 - May 2024 ~ Oxford, Ohio)

> Master of Science - **Computer Science** (May '24)
  Graduate GPA: 4.00

> Bachelor of Science - **Software Engineering** (May '23)

> Bachelor of Science - **Computer Science** (May '23)

> Certificate - **Entrepreneurship / Creativity** (May '23)
  Undergraduate GPA: 3.85
  Magna Cum Laude, Honors with Distinction

RELEVANT COURSEWORK

> Artificial Intelligence, Machine Learning
> Logic, Knowledge Representation & Reasoning
> Design Thinking, Creativity & Innovation
> Software Requirements and Elicitation
> UX / UI Design
> Software Architecture & Design Patterns
> Software Testing, Ethical Hacking
> Web Applications Programming
> Database Systems
> Comparative Programming Languages
> Object Oriented Programming
> Data Structures, Algorithms

Python	C#	C++
SQL	PHP	Java
HTML	CSS	JavaScript

TECHNOLOGICAL CHANGE

THESIS RESEARCH - ARTIFICIAL INTELLIGENCE
(February 2022 - May 2024 ~ Oxford, Ohio)

> Created and empirically tested a hybrid, neuro-symbolic semantic search system for research papers in artificial intelligence.

> Leveraged insights from lateral thinking, systems theory, psychology, creativity, and business to explore innovative approaches in AI research.

> Unified two different areas of artificial intelligence: neural and symbolic, in order to improve AI outcomes through synergy.

> Delivered a defense presentation to a PhD-level committee.

WORLD CREATIVITY & INNOVATION WEEK / DAY
(February 2020 - May 2024 ~ Oxford, Ohio (Hybrid))

> Observed and interviewed users of the software to identify opportunities for improvement.

> Taught myself new things to adapt to the specific needs of the users.

> Proposed and implemented new projects and initiatives to streamline operations and drive and support exponential growth.

> Designed, developed, and maintained a database to facilitate automation, which increased process efficiency by more than 10x.

> Presented original software to the international advisory board.

> Integrated feedback into the next iteration, resulting in software which was more intuitive and well suited for international use.

> Provided the means for data visualization, analysis, and informed decision-making, positioning the organization for future success.

INDEPENDENT CONTRACTING - DIVER COLLECTIVE
(May 2021 - August 2022 ~ Brooklyn, New York (Remote))

> Modified and developed WordPress websites and plugins.

> Trained clients how to use WordPress and Elementor.

> Transformed artist-made website designs from idea to reality.

SUMMER INTERNSHIP - KEYBANK
(June 2021 - August 2021 ~ Cleveland, Ohio (Remote))

> Assisted the Enterprise Architecture team by creating proof of concept projects, including a chatbot and user permissions system.

> Developed a database, leveraged Google Cloud Platform and Pub/Sub events and scripts written in PHP and Python.

> Presented projects to leaders within the company.