

EDUCATION

University of Michigan - Rackham

Master of Science in Computer Science and Engineering; GPA: 4.0

Relevant Coursework: Systems for Generative AI, Natural Language Processing, Databases, Advanced Compilers

Ann Arbor, Michigan

Dec 2023 - Dec 2024

University of Michigan - Engineering

Honors Bachelor of Science in Computer Science; GPA: 3.9

Relevant Coursework: Advanced Operating Systems, Web Systems, UI/UX Design, Compiler Construction, Software Engineering

Ann Arbor, Michigan

Sep 2020 - Dec 2023

WORK EXPERIENCE

Wayfair

Software Development Engineer Intern

Boston, MA

June 2023 - September 2023

- Engaged in stand-up meetings, retrospectives, and sprints, fostering effective teamwork and timely completion of assigned tickets.
- Created Kafka consumer to consume event stream data about warehouse creation messages. This replaced a previous update job and enhanced real-time data processing capabilities.
- Optimized data storage and retrieval processes by spearheading the deprecation of event stream data, resulting in a 30% reduction in storage space.
- Implemented an automated process in C# to remove outdated records from outbox tables, resulting in improvement of 15-20% in system efficiency and streamlined data management.
- Developed new POST, DELETE, and PUT endpoints to streamline the creation of promotional incentives for business-to-business and supply chain management purposes.

University of Michigan EECS

Human-Centered Software Development - Lead Graduate Instructor

Ann Arbor, MI

January 2024 - Present

- Administered the course, coordinated logistics, and led grading efforts to ensure comprehensive evaluation of student work.
- Mentored students in developing impactful software projects focused on societal benefits, guiding them through the integration of human-centered design principles with technical implementation.

Data Structures & Algorithms - Teaching Assistant

Dec 2021 - January 2024

- Assisted professors in teaching algorithm analysis, O-notation, and fundamental data structures (stacks, queues, deques, and hash tables) to over 900 students per semester.
- Led a weekly lab section, ideated and created exam questions, and provided guidance on conceptual topics through Piazza.
- Conducted weekly office hours to assist students in debugging and optimizing projects encompassing more than 1000 lines of code.

Computer Organization - Grader

Sep 2022 - Present

- Evaluated and graded over 800 assignments and exams on computer organization subjects, including caches, virtual memory, multi- and single-cycle datapaths, pipelining, and information set architecture.

T. Rowe Price

Software Engineer Intern

New York, NY

June 2022 - Sep 2022

- Developed comprehensive Grafana dashboards, integrating Prometheus, Telegraf, Splunk, and CloudWatch metrics, to provide valuable insights and enhance monitoring capabilities for the Enterprise HashiCorp Vault application.
- Designed and deployed a robust alerting system that ensures immediate notifications of Vault incidents, reducing incident response time by 60% and ensuring timely resolution.
- Integrated Sourcegraph code intelligence into the GitLab UI using Docker, resulting in an improved development workflow for all teams and enhancing their ability to work efficiently with the codebase.
- Leveraged Prometheus to collect firmwide VDI information, enabling the breakdown of data by geolocation to gain valuable insights into update and consumption patterns. These insights played a crucial role in informed decisions on the company's continued provision of VDIs.

RESEARCH

LinkedIn Recommendation Analysis

Honors Thesis - EECS Departmental Award Winner

Ann Arbor, MI

August 2022 - May 2023

- Created suite of scripts to extract recommendation data from LinkedIn profiles, facilitating in-depth textual analysis of the collected data using a Naive Bayes classifier and Scikit-learn Python framework.
- Awarded Highest Honors and CSE Outstanding Research Award.

Implicit Biases in Hiring

Researcher - Ford School of Public Policy

Ann Arbor, MI

September 2020 - August 2023

- Collaborated closely with Professor Fabiana Silva to spearhead experimental research on hiring discrimination, resulting in actionable recommendations to address and mitigate biases in the hiring process.

SKILLS

Languages: C++, C, C#, Rust, SQL, Python, JavaScript, HTML, CSS

OS: Arch Linux, MacOS, Windows