

Emil Sayahi

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Education

Miami University

Bachelor of Science in Computer Science

GPA: 3.77/4.00

Relevant Coursework: Object-Oriented Programming, Web Applications, Data Structures, Databases, Algorithms, Probability, Regression, Statistical Learning, Machine Learning, Quantum Computing

Oxford, OH

August 2021 - May 2024

Skills

Languages: Rust, C#, Java, JavaScript, C++, Python, D, SQL, PHP

Technologies: GTK, .NET, React.js, Apollo GraphQL, Docker, Kubernetes, MongoDB, MySQL, GitHub Workflows

Software: Jira, Jenkins, Linux, IPFS, Git, GitHub, Capture One, Slack, TeamDynamix, Office 365, Google Workspace, ~~Blender~~

Experience

HCLSoftware

Intern

Remote

May 2023 - August 2023

Worked as a backend & frontend core-team developer on the HCL Accelerate and IBM UrbanCode Velocity products. Developed frontend of a significant customer-facing feature in the final product update within the internship period.

Miami University, Department of Computer Science & Software Engineering

Teaching Assistant

Oxford, OH

August 2022 - December 2023

TA for Systems I and Fundamentals of Programming courses at Miami University; course material consists of object-oriented programming, Java, C/C++, introductory networking, introduction to computer architecture, and introduction to relational databases & SQL. Responsible for grading assignments, assisting students in lab sessions, and holding weekly two-hour help sessions.

Miami University, IT Services

Data Integration Intern

Oxford, OH

May 2022 - Present

Working in maintaining & developing integrations with applications in Miami University's IT Service Management ecosystems. Meeting, communicating, and collaborating with enterprise partners. Utilising Amazon RDS, MySQL, Python, and TeamDynamix iPaaS; writing code to handle university data, and writing progress reports & documentation for relevant parties. Presented at the 2023 Ohio Higher Education Computing Council (OHECC) Conference at Wright State University on ITSM best practices for institutions of higher education.

Miami University, University Libraries

Women's Grant Student Assistant

Oxford, OH

March 2022 - May 2022

Assisting the Digital Collections librarian at Walter Havighurst Special Collections, University Archives & Preservation. Primarily working to digitise collections with grant funding from the Miami Initiative for Advancing, Mentoring, and Investing in Women (M.I.A.M.I. WOMEN).

Miami University, Office of Government Relations

Government Relations Intern

Oxford, OH

August 2021 - Present

Advocating for Miami University and higher education in Washington, DC and the Ohio Statehouse in Columbus, OH. Meeting with Ohio State Senators & Representatives, the Chancellor of the Ohio Department of Higher Education, and legislative aides of US Representatives. Priorities include supporting funding for the Federal Pell Grant Program, Ohio College Opportunity Grant (OCOG), Ohio State Share of Instruction (SSI), and the Choose Ohio First (COF) Scholarship Program.

Presentations & Projects

Introduction to Quantum Machine Learning

November 2023

Talk given at the Miami University Physics Department seminar on introductory concepts surrounding quantum computing, machine learning, and the intersection of the two fields.

Automation in IT Service Management

May 2023

Talk given at the 2023 Ohio Higher Education Computing Council (OHECC) conference detailing strategies to automate ITSM practices in higher education institutions.

Analysis of Potential Malicious Strategies toward Bit-Exchange with IPFS

April 2022 - August 2022

Summer research project investigating methods to disrupt network communication between nodes in a private IPFS network.

Oku

November 2020 - Present

Experimental Web browser with an encrypted & local-first peer-to-peer (P2P) filesystem.

Awards

Commendation in Undergraduate Research

May 2023

Dean's List

Fall 2023, Fall 2022, Spring 2022, Fall 2021

Choose Ohio First Machine Learning Scholarship

August 2023, August 2022, August 2021

Bertelsmann Technology Scholarship Program

December 2021