Emil Sayahi
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Experience

Hearts   Cincinnati, OH
CTO   August 2024 - Present
- Co-founded a seed-stage B2B SaaS startup.
- Directed & supervised development of backend, assigned & evaluated tasks delegated to junior developers.
- Designed product architecture, technology stack, and technical vision.
- Negotiated with vendors, represented technical operations at conferences & investor meetings.

Protiviti   Boston, MA
Technology Consulting Intern   May 2024 - August 2024
- Consulted for automotive client concerned with regulatory compliance requiring business platform transformation (BPT).
- Developed SAP BusinessObjects reports and universes in Web Intelligence and Information Design Tool as part of reimplementing a major client dashboard.
- Discovered & resolved recurring data loss among consultants by creating version-control procedure.
- Automated creation of certain client deliverables with Python scripts, eliminating hours of deliverable creation & validation.

HCLSoftware   Remote
Software Engineer Intern   May 2023 - August 2023
- Identified & fixed bugs, and designed & built UI elements, as core-team developer for HCL Accelerate and IBM UrbanCode Velocity products.
- Transitioned product from Docker Compose V1 to V2. Migrated portions of React frontend from class components to function components.
- 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   Oxford, OH
Teaching Assistant   August 2022 - December 2023
- Assisted with instruction of Systems 1 and Fundamentals of Programming courses at Miami University; material consisted of object-oriented programming, Java, C/C++, introductory networking, introduction to computer architecture, and introduction to relational databases & SQL.
- Graded assignments, assisted students in lab sessions, and held weekly two-hour help sessions.

Miami University, IT Services   Oxford, OH
Software Engineer Intern   May 2022 - May 2024
- Developed integrations with applications in Miami University's IT Service Management ecosystems using TeamDynamix iPaaS and Python scripts.
- Designed, created, and maintained internal employee recognition tool and user-facing IT support chatbot.
- Created internal tools to manage building resources and instructor equipment, eliminating both the need to purchase updates for facility management software and weeks of manual database changes, and improving record-keeping of employee hardware.
- Authored documentation of best practices, internal procedures, and technical standards; onboarded new engineers.
- 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   Oxford, OH
Women's Grant Student Assistant   March 2022 - May 2022
- Digitised the records of Carolyn Jefferson-Jenkins dating to her tenure as president of the League of Women Voters; funded by the Miami Initiative for Advancing, Mentoring, and Investing in Women (M.I.A.M.I. WOMEN).

Miami University, Office of Government Relations   Oxford, OH
Government Relations Intern   August 2021 - May 2024
- Advocated for the interests of Miami University in Washington, DC and the Ohio Statehouse in Columbus, OH.
- Spoke with Ohio State Senators & Representatives, the Chancellor of the Ohio Department of Higher Education, and legislative aides of US Representatives.
- Advocated for increased 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.
- Assisted presidents, government relations directors, and students of Inter-University Council of Ohio members in opposing state-level legislation harmful to higher education.

Projects & Presentations

Introduction to Quantum Machine Learning   November 2023
Lecture given at the Miami University Physics Department seminar on introductory quantum computing, machine learning, and the intersection of the two fields.

Oku   May 2023 - Present
Open-source web browser, peer-to-peer protocol, & social bookmarking system. Recipient of the NLnet NGI0 Entrust grant as part of the European Commission's Next Generation Internet initiative.

Automation in IT Service Management   May 2023
Talk given at the 2023 Ohio Higher Education Computing Council (OHECC) conference detailing technical & administrative best practices for automating ITSM operations in higher education institutions.

Analysis of Potential Malicious Strategies toward Bit-Exchange with IPFS   April 2022 - August 2022
Research project investigating methods to disrupt network communication between nodes in a private IPFS network, funded through Miami University's Undergraduate Summer Scholars Program.

Education

Miami University   Oxford, OH
Bachelor of Science in *Computer Science* — GPA: 3.81 (magna cum laude)   August 2021 - May 2024

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