Emil Sayahi

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Systems programmer & web developer with experience contributing to startups & commercial open-source software. Knowledgable in low-level programming, interested in building reliable, fast, memory-safe software that scales.

Skills

Languages:	Rust, TypeScript, JavaScript, C#, Python, Java, PHP, C, C++
Technologies:	Linux, Bun, Deno, PNPM, Node.js, Git, GitHub Workflows, PostgreSQL, MySQL, GraphQL, MongoDB, Docker, HTML, CSS
Frameworks & Platforms:	React, Expo, Express.js, Next.js, TailwindCSS, Grafana, OpenTelemetry
Techniques & Methodologies:	OIDC, Agile, Scrum, unit testing, end-to-end (E2E) testing

Experience

Garden Computing — San Francisco, CA
Full-Stack Software Engineer — February 2025 - Present
- Architected & led development of a high-performance user management platform using React, Node.js, and Express.js (product TBA).
- Developed & maintained APIs for permission management and authentication for the Jazz framework.
- Supported ˜20 commercial adopters and 600+ open-source users of the Jazz framework, hosted hackathons, and engaged with community members at conferences.

Contractor — Remote
Full-Stack Software Engineer — August 2024 - February 2025
- Maintained Rust modules related to LLMs in fork of Android Open-Source Project (AOSP); details covered by NDA.
- Developed WebKit-based browser project integrating NLnet-funded technologies into GNOME software ecosystem.

Protiviti — Boston, MA
Technology Consulting Intern — May 2024 - August 2024
- Aided 2 senior consultants for automotive client concerned with regulatory compliance requiring business platform transformation (BPT) after $340m acquisition.
- 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 consulting team by introducing version-control procedures.
- Automated creation of certain client deliverables with Python scripts, eliminating 4+ hours of deliverable creation & validation.

HCLSoftware — Remote
Software Engineer Intern — May 2023 - August 2023
- Identified & resolved bugs, and designed & built UI elements, as developer in 10-person core team 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 new major customer-facing feature that had previously been delayed by 3+ months.

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, guided 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.
- Created internal tool to manage data associated with 62+ university-owned buildings, eliminating the need to purchase updates for facility management software & 2+ weeks of manual database changes every 16 weeks.
- Created internal tool to manage university-owned hardware, improving record-keeping & accountability.
- 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 higher education.

Miami University, Office of Government Relations — Oxford, OH
Government Relations Intern — August 2021 - May 2024
- Advocated for Miami University in meetings with state legislators, the Ohio Department of Higher Education, and aides of US Representatives.
- Advocated for funding of Pell Grants, Ohio College Opportunity Grants, State Share of Instruction, and Choose Ohio First Scholarships.
- Supported presidents, government relations directors, and students of Inter-University Council of Ohio members in opposing state legislation.

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 with 500+ users and 160+ GitHub stars. Recipient of €5 000 NLnet NGI0 Entrust grant as part of the European Commission's Next Generation Internet initiative.

Automation in IT Service Management — May 2023
Talk at the 2023 Ohio Higher Education Computing Council conference detailing technical & administrative best practices for ITSM automation in higher education.

Analysis of Potential Malicious Strategies toward Bit-Exchange with IPFS — April 2022 - August 2022
Research project investigating attack vectors 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 & Certifications

Intellectual and Cultural Leadership	May 2024
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