Arsh Ausim Mobeen

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Canadian Citizen, Ambitious, Critical Thinking, Creativity, Resilience, Consistency, Relationship Building

Biography

Motivated software engineering student with experience in full-stack development, microservices, and cloud infrastructure. Skilled in Python (FastAPI), React, and PostgreSQL, with a proven ability to ship production-ready features in Agile environments. Proficient in AWS, GitLab, and Datadog, I thrive in fast-paced settings and am passionate about building impactful, data-driven solutions.

Education

University of Western Ontario — London, ON
B.E.Sc. Software Engineering — Sep 2023 - 2027

Professional Experience

Elite Life Financial — Mississauga, ON
Software Engineering Intern — April 2024 - August 2024

- Developed internal tools using Python (with FastAPI) and JavaScript, automating client data management and enhancing business workflows, reducing manual processes by 30%.
- Implemented full-stack development solutions by translating business requirements into scalable frontend and backend architectures, contributing to the end-to-end software development lifecycle.

Western Formula Racing — London, ON
Electronic Design Engineer — Sep 2024 - Present

- Collaborated with cross-functional teams to integrate frontend and backend components with hardware subsystems, ensuring seamless alignment with overall design goals.
- Consulted with mechanical engineers and professional drivers to optimize sensor placement and data acquisition, improving system accuracy and vehicle diagnostics.

Pakistani Students Association — London, ON
Vice President of Events — Sep 2024 - Present

- Addressed and resolved logistical challenges, demonstrating problem-solving and swift adaptability
- Managed a team of five in coordinating event logistics, delegating responsibilities, and ensuring efficient collaboration to execute high-impact events successfully.

Amity Global Foundation — Oakville, ON
Fundraising Officer — May 2024 - August 2024

- Organized and led community fundraising events and digital campaigns to raise awareness and mobilize donor support.
- Crafted persuasive communications and presentations to convey the urgency and impact of the clean water mission.

Projects

Accessible Outdoor Watering System *JavaScript, AutoCAD, Python*
Collaborated with a team to design and build an adaptive outdoor watering system for the stakeholder Hutton House, empowering individuals with disabilities to water plants independently.

AI-Powered Traffic Light & Flood-Resilient Road Design *Collaboration, AI Logic, Arduino, AutoCAD*
Collaborated to design an AI-integrated traffic system using Arduino and water sensors to dynamically manage traffic during urban flooding. Designed civil road infrastructure with built-in drainage channels for optimized runoff control. Project nominated as a top finalist and awarded Excellence by competition judges.

Personal Portfolio Website *Javascript, HTML, CSS*   https://github.com/Smokey878/myPortfolio.git
Currently designing a personal portfolio website to showcase projects and technical expertise using modern web technologies like React and TypeScript.

Skills

Programming Languages:	Java, JavaScript, Python (FastAPI), Typescript, C++, C#
Web Development:	HTML, Node.js, CSS, React, Frontend & Backend Development
Software & Mechanical:	AutoCAD, Solidworks, Simulink, PostgreSQL, Redis, Quartus, MATLAB
Software Development Lifecycle (SDLC):	Agile Development, Iterative Development, Microservices Architecture
Office 365:	Word, Excel, Powerpoint, SharePoint, Teams, Onenote
Data-Driven Tools:	Amplitude, Experimentation Frameworks, UML Diagrams, Data Analytics