

Ahmed Zafar

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EDUCATION

McMaster University

Hamilton, On

Major: Software Engineering; GPA: 3.8

Projected Graduation Date: April 2028

- Software Lead @ McMaster Biomedical Engineering Technical Team, Open Source @ Google SDC McMaster
- Teaching Assistant: Teach 30+ students the engineering design process, python programming, OOP, and lead 6+ weekly design/code reviews to ensure code is optimized and well documented
- Relevant Courses: Health Solutions Design Projects (Intro to Programming in Python), Object Oriented Programming in Java, Data Structures & Algorithms, Large System Design and Infrastructure, Databases

EXPERIENCE

Co-Founder, Chief Technology Officer

Hamilton, On

Stoat — Machine Learning Deployment Platform

April 2025 - Present

- Building a service to simplify machine learning model deployment by enabling developers to deploy from the command line, auto-scale their computing resources, generate RESTful APIs, and monitor their deployment with real-time logs, and efficient versioning.
- Using Vite.js, FastAPI, Docker, AWS EC2, AWS Sagemaker, Kubernetes, and PostgreSQL to automate infrastructure, scaling, and APIs.
- Created a waitlist with 100+ engineers, currently onboarding beta users, and incorporating their feedback

Software Engineering Intern

Hamilton, On

Arche Biotechnologies

September 2024 - December 2024

- Built and improved infrastructure of a web-app prototype and interfaced with the hardware team's sensor components to design a medical management device.
- Replaced inefficient HTTP requests with Web-Sockets, reducing data transfer latency by 94%
- Designed NOSQL database architecture using MongoDB allowing clients store and securely retrieve thousands of patients information.

AI/ML Researcher and Fullstack Developer Intern

Hamilton, On

Biomedic.Ai Labs

May 2024 - August 2024

- Awarded National Sciences and Engineering Research Council's Undergraduate Student Research Award to research Adaptive Cyber-Physical Systems for Human-AI partnership within a surgical setting
- Delivered several machine learning models (neural networks, random forest, SVM) from scratch with a average prediction accuracy of 92% by processing data using NumPy, Pandas, and TensorFlow
- Completed 8 features to the front-end and back-end of a fullstack project assessing the quality of machine learning being leveraged using the MERN stack, ensuring maintainability and scalability.
- Developed REST API endpoints, and conducted back-end analytics of user interactions.
- Wrote 4 pages of documentation and justification of my technical contributions.

PROJECTS

HackMe | Python, JavaScript, React, Paramiko, nmap, Flask, OpenAI API

- WINNER @ McMaster Engineering Competition (500+ participants), allowing us to compete in the Ontario Engineering Competition.
- Developed a B2B cybersecurity service to find vulnerabilities in emerging start-ups and small businesses.
- Automated cyber-attacks such as port scanning servers, and brute-force SSH testing with 100% coverage and potential to expand to more tests like SQL Injections.

Dash-Tab | JavaScript, React, CSS, Figma, Firebase, Github Actions

- Developed scalable architecture that handles 29 000+ reads from the database per month.
- Used Github Actions to create a continuous integration pipeline automate building and testing, catching 10+ errors and improving debugging efficiency.
- Incorporated user feedback to refine 12+ features and ensure a user-centric software engineering process.

LANGUAGES AND TECHNICAL SKILLS

Python, HTML, CSS, JavaScript, Java, C, C++, Bash, Verilog, TypeScript, Swift — TensorFlow, Matplotlib, NumPy, Pandas, React.js, Linux, Git, GitHub, Express.js, Node.js, MongoDB, Flask, FastAPI, Firebase, Socket-io, Figma, Next.js, Vite.js, SQL, PostgreSQL, Docker, AWS, AWS EC2, AWS Lambda, AWS Sagemaker, Kubernetes