

# Mohammed Amir

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## EDUCATION

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### BASc Computer Engineering

Minor in Artificial Intelligence • University of Toronto • Toronto, ON • Graduation: June 2024

## SKILLS

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Professional: Project Management, Algorithms and Data Structures, IP/TCP, Agile and Scrum Methodology, CI/CD, RESTful APIs, TDD, Database Management and Design, Computer Security, Software Engineering

Programming Languages: C, C++, C#, Python (Flask, matplotlib, Pytorch, Numpy), PHP, JavaScript (ES6, Typescript, React, Three.js, Node.js, AJAX, jQuery), SQL (MySQL, PostgreSQL), MongoDB, HTML, CSS

Software: Git, GitHub, Jira, Visual Studio Code, Postman, Docker, Linux (Debian, Ubuntu), MacOS, Windows, AWS, Azure

## EXPERIENCE

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### Junior Software Developer

Human Endeavour

May 2022 - August 2023, Vaughan, ON

- **Developed and deployed** a full-stack assistive tablet application using **Kotlin, Python (Flask), and Google Cloud APIs**, improving accessibility for 400+ seniors with Alzheimer's and securing a **\$500,000 government contract**.
- **Built RESTful APIs** with **Flask** and integrated **MongoDB/PostgreSQL**, enabling real-time storage and retrieval of IoT sensor data for location tracking.
- **Designed and optimized** an AI-powered indoor tracking system using **Python, C++, and Arduino**, allowing real-time monitoring of senior activity and health metrics.
- **Created interactive dashboards** using **React, Flask, Bootstrap, and JavaScript**, providing real-time data visualization for caregivers and administrators.
- **Implemented automated testing** with PyTest, improving **code reliability by 40%** and reducing **deployment time by 20%**.

## PROJECTS

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### Software Engineer

Unboxing Engineering • [unboxingengineering-npsg.onrender.com/](https://unboxingengineering-npsg.onrender.com/) • September 2023 - June 2024

- **Developed a full-stack interactive web application** using **React, Vite, JavaScript (Three.js), and Node.js**, increasing user engagement by **50%** through real-time animations and interactions.
- **Designed backend services** to manage dynamic content and application state, reducing API response times by **25%**, ensuring smooth performance across **19+ interactive elements**.
- **Implemented CI/CD pipelines and automated testing**, reducing deployment failures by **30%** and ensuring **99.8% uptime** for the application.

### Frontend Developer and Project Manager

UofT Occasional Web Application • [occasional.onrender.com/](https://occasional.onrender.com/) • September 2023 - December 2023

- **Developed a dynamic calendar and dashboard interface** using **JavaScript, Flask, and MongoDB**, improving **event scheduling efficiency by 50%** and reducing **user navigation time by 35%** through intuitive UI enhancements.
- **Designed RESTful APIs** for backend communication, decreasing data retrieval latency by **30%** and improving site responsiveness.
- **Led a team of three frontend developers**, coordinating development and **reducing bug resolution time by 40%**, ensuring high-quality feature implementation.

### Open-Source Contributor

Ethos • [github.com/Aditya-Gupta/Ethos](https://github.com/Aditya-Gupta/Ethos) • December 2023 - February 2024

- **Enhanced full-stack comment tracking functionality** in a **React**-based open-source project, improving navigation efficiency by **60%** and reducing **search time by 40%**.
- **Developed features** using **JavaScript, Bootstrap, and Flask**, leading to a **25% increase in user engagement** through improved usability.