

Mohammed Amir

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EDUCATION

BASc Computer Engineering

Minor in Artificial Intelligence • University of Toronto • Toronto, ON • Graduation: June 2024 • 3.2 cGPA

- Coursework: Software Engineering, Computer Architecture, Operating Systems, Computer Networks, Algorithms and Data Structures, Software Communication and Design, Relational Databases, Intro to AI, Applied AI

EXPERIENCE

iOS Technical Support Advisor

Transcom WorldWide

July 2024 – December 2024, Toronto, ON

- Diagnosed and resolved complex Apple device issues, achieving a 92% resolution rate through systematic troubleshooting.
- Collaborated with cross-functional teams to document and escalate problems, maintaining a 97% customer satisfaction rate.
- Streamlined support workflows by developing detailed documentation, mirroring agile best practices for process optimization.

Junior Software Developer

Human Endeavour

May 2022 – August 2023, Vaughan, ON

- Developed a full-stack assistive tablet app (Kotlin, Flask, Google Cloud APIs, MySQL) that enhanced accessibility for 400+ seniors and secured a \$500K government contract.
- Engineered an AI-powered indoor tracking system (Python, C++, Arduino) with 95% accuracy and 30% faster response times.
- Implemented RESTful APIs with Flask and integrated MongoDB for real-time IoT sensor data management.
- Created interactive dashboards using Flask, Bootstrap, and JavaScript for dynamic data visualization.

PROJECT

Software Engineer

Unboxing Engineering • unboxingengineering-npbg.onrender.com/

- September 2023 – April 2024
- Developed a full-stack interactive web application using React, Vite, PostgreSQL, JavaScript (Three.js), and Node.js, increasing user engagement by 50% through real-time animations and interactions.
- Designed backend services to manage dynamic educational content and application state, reducing API response times by 25%, ensuring smooth performance across 19+ interactive elements.
- Implemented CI/CD pipelines and automated testing with Git, reducing deployment failures by 30% and ensuring 99.8% application uptime.

Open-Source Contributor

Ethos • github.com/Aditya-Gupta/Ethos

• November 2023 – January 2024

- Enhanced a React.js comment tracking feature, improving navigation efficiency by 60% and reducing search time by 40%.
- Developed new feature using JavaScript, Bootstrap, Firebase, and React.js, boosting user engagement by 25%.

Frontend Developer & Project Manager

UofT Occasional Web Application • occasional.onrender.com/

• September 2023 – December 2023

- Built a dynamic calendar and dashboard using HTML, CSS, Bootstrap, JavaScript, Flask, and MongoDB, improving event scheduling by 50% and cutting navigation time by 35%.
- Integrated REST APIs for personalized dynamic content, improving site responsiveness and delivering on core features.
- Led a team of three frontend developers, coordinating Agile development and using Git and GitHub to reduce bug resolution time by 40%.

Backend Developer

Text-Conferencing Application • January 2023 – April 2023

- Developed a Linux-based encrypted messaging application in C using TCP/IP protocols for secure multi-client communication.
- Implemented an ACK-based authentication system to boost security by 40%.
- Designed a multi-threaded server to support real-time messaging for 100+ users without latency issues.

Developer & Communications Manager

Atlas Meets Computer • January 2022 – April 2022

- Created a large-scale GIS mapping system using C++ and the OpenStreetMaps API for real-time navigation across 12 major cities.
- Developed an interactive GTK-based UI for 25M+ mapped nodes, enhancing search and route-finding.
- Optimized pathfinding with Dijkstra's and A* algorithms, reducing computation time by 40%, and integrated location-based filtering for enhanced accuracy.

SKILLS

DevOps & Cloud: Docker, Google Cloud Platform, Microsoft Azure, CI/CD (GitHub Actions)

Development Tools: Git, Jira, Postman, Visual Studio Code, Figma

Frontend: React.js, Next.js, Redux, JavaScript, TypeScript, HTML5, CSS3, Tailwind, Bootstrap

Backend: Python (Flask, FastAPI), Node.js, Express.js, PostgreSQL, MySQL, MongoDB