

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

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-npsg.onrender.com/ • September 2023 - June 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 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% uptime for the application.

Open-Source Contributor

Ethos • github.com/Aditty-Gupta/Ethos • December 2023 - February 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 and 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* for version control, to reduce bug resolution time by 40%.

Backend Developer

Text-Conferencing Application • January 2022 - May 2022

- 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 2021 - May 2021

- 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

Languages: C, C++, C#, Python, JavaScript, SQL, MongoDB, HTML5, CSS3

Developer Tools: Git/GitHub, Jira, Visual Studio Code, Postman, Docker, Linux (Debian, Ubuntu), Microsoft Azure, Google Cloud Platform, Figma

Frameworks & Libraries: Flask, PyTorch, Numpy, Typescript, Next.js, Node.js, React, Redux, Express.js, PostgreSQL, MySQL, Bootstrap