

Shams Haroon

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EDUCATION

Ontario Tech University

Bachelor of Science in Computer Science | 4.24/4.3 GPA

Expected Graduation – May 2027

Oshawa, ON

EXPERIENCE

AI Research Project Assistant

Sept 2024 – Present

Ontario Tech University

Oshawa, ON

- Developed and optimized React TypeScript frontend applications, implementing real-time interfaces for visualizing NLP model outputs and machine translation error analysis.
- Collaborated with 5+ researchers, translating complex NLP data into user-friendly dashboards, improving model evaluation speed.
- Streamlined frontend performance by integrating state management tools and reusable components, enhancing usability and reducing error detection.

Embedded Software Developer

Sept 2024 – Present

Ontario Tech Racing

Oshawa, ON

- Collaborated with 10+ engineers to integrate frontend dashboards, enhancing the visibility of critical sensor data and telemetry in real-time for drivers and pit crews.
- Designed and implemented interactive dashboards with React, streamlining vehicle diagnostics and sensor data visualization, reducing troubleshooting time by 30%.
- Expanded my skill set by learning and applying embedded programming concepts, contributing to the development of firmware updates while focusing on improving the integration between front-end tools and vehicle telemetry systems.

Software Engineer Fellow

July 2024 – Sept 2024

Headstarter AI

Long Island City, NY

- Collaborated with a team of engineers to design, develop, and deploy innovative applications.
- Engaged in hands-on coding, debugging, and problem-solving, resolving 20+ software issues to deliver high-quality solutions.
- Participated in 20+ mentorship sessions with seasoned professionals, gaining valuable insights and knowledge from industry experts.

Cloud & Application Developer

July 2024 – Sept 2024

Pamoja Institute

Remote

- Collaborated with a team of developers to conceptualize, design, and launch responsive mobile applications
- Optimization of Cloud Infrastructure on Azure improving cost efficiency by 20%.
- Android Application Testing increasing UX by 30%.
- Resolved 10+ issues through meticulous debugging and testing, ensuring seamless app performance.

PROJECTS

Trash Tech | Azure, GitHub, Computer Vision, Django, React, ThreeJS, ChakraUI

Feb 2024 – Present

- Developed "Trash Tech," utilizing computer vision and Microsoft Azure achieving a 92% accuracy rate.
- Trained the model using Azure Custom Vision API with a dataset of over 5000+ photos.
- Utilized the model to classify objects in real-time, improving waste management processes by 30%.

Verbal Voyage | Flask, React, Tailwind CSS, LibreTranslateAPI, gTTS, Python

June 2024 – July 2024

- Developed "Verbal Voyage," a full-stack web application enabling translation and text-to-speech conversion.
- Regulated text translation between 50+ languages using LibreTranslateAPI.
- Conducted extensive testing and optimization, achieving a 95% success rate in translation and speech conversion tasks.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, SQL

Relevant Coursework: Computational Science, Data Structures, Programming Workshop I & II

Frameworks: React, Django, Flask, ThreeJS, Framer Motion, Next.js

Developer Tools: Github, Docker, Azure, Postman, Figma, Slack, AWS, VS Code, Visual Studio