ZAIN RIZVI

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PROFESSIONAL SUMMARY

- 4th year University of Toronto student, pursuing dual majors in Computer Science and Mathematics
- Awarded First Place at the AI Olympics Hackathon, University of Toronto
- Hack The Valley Hackathon Award Winner, earning free admission to the prestigious 2024 Collision Conference
- Recipient of Frank Faubert Scholarship as well as Admission Scholarship from the University of Toronto

TECHNICAL SKILLS

Languages	Python, Java, C, C++, MATLAB
Frameworks & Libraries	NumPy, pandas, Matplotlib, Jupyter, PyTorch, Spring Boot, Maven
Tools & Technologies	Git, Postman, LaTeX, Linux, VS Code, Android Studio, MS Office
Databases	MongoDB

EDUCATION

Bachelor of Science, University of Toronto   Sept 2022 - May 2026

Computer Science Major

Mathematics Major

Relevant Coursework: Machine Learning, Artificial Intelligence, Computer Graphics, Data Structures

WORK EXPERIENCE

Junior Technical Analyst   May 2024 - Aug 2024

Ontario Ministry of Transportation   *Toronto, ON*

- Produced an automated Python script using pandas and openpyxl to merge CSV financial data into Excel, reducing processing time by 95% and leading to significant efficiency gains in internal accounting
- Reconciled $1M+ in financial discrepancies across 130,000+ records within the Heavy Commercial Vehicle Deferred Payment Plan program via data analysis, ensuring error-free financial reporting and compliance with provincial standards
- Developed and maintained RESTful APIs for the Spring Boot backend of the Towing and Storage Safety and Enforcement Act Application, ensuring system reliability, resolving technical issues, and maintaining full compliance with AODA accessibility standards
- Won second place at the MTO Road Safety Solution Hackathon creating SafeNav; the app enhanced road safety by providing real-time hazard alerts to users

Summer Camp Counselor   July 2022 - Aug 2022

City of Pickering   *Pickering, ON*

- Guided daily activities for groups of 30+ campers, increasing camper engagement and satisfaction
- Resolved conflicts and behavioral challenges among campers by mediating disputes, offering guidance, and fostering understanding, decreasing camper conflicts and improving camp atmosphere

PROJECTS

Songify   April 2023

AI Olympics Hackathon

- Led a team to victory at the AMACSS AI Olympics Hackathon, presenting to 200+ attendees, including representatives from top companies, at the CMS GALA, a prestigious event celebrating excellence in computer and mathematical sciences.

- Developed a Python program that generates fully customized song lyrics and album covers for any genre or topic using OpenAI's ChatGPT for lyrics and DALL-E for artwork, demonstrating versatility and creative potential.
- Engineered a seamless system with Flask and Jupyter Notebook, integrating OpenAI API to enable real-time generation of lyrics and artwork, highlighting strong technical skills and effective system design

Android Mall Application July 2023 - Aug 2023

University of Toronto

- Developed an Android application enabling shoppers to browse and order products from multiple stores, incorporating real-time order tracking to enhance user convenience and shopping experience
- Led sprint management in a 6-member team using Scrum and Jira, optimizing project tracking and ensuring the Application was delivered on time with all features fully implemented
- Implemented Git best practices to resolve code conflicts, maintain a clean repository, and enhance team productivity
- Employed Firebase for real-time database updates and user authentication, leveraging Android Studio guaranteeing streamlined development and testing

AWARDS

- AI Olympics Hackathon Winner for creating Songify
- University of Toronto Scarborough Frank Faubert Scholarship
- University of Toronto, Scarborough College, Admission Scholarship
- Hack The Valley Hackathon Award Winner, earning free tickets to 2024 collision Conference
- MTO road safety solution Hackathon second place winner

CORE COMPETENCIES

Data Science: Python | Pandas | NumPy | Scikit-Learn | Data Visualization | Statistical Analysis | Data Cleaning | Pytorch | Matplotlib

Backend Development: Java | Spring Boot | RESTful APIs | MongoDB | API Development | Version Control (Git) | Object-Oriented Programming

Mobile Development: Android Studio | Firebase | Java | API Integration | MVC Architecture | UI/UX Design | Debugging