

# RAFAEL JOSH FERNANDO

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## Education

### BACHELOR OF SCIENCE (HONS) IN APPLIED MATHEMATICS – SPECIALIZATION IN COMPUTER SCIENCE

Expected in 05/2025

Toronto Metropolitan (Ryerson) University | Toronto, ON

CGPA 3.79, Dean's List for 2 Semesters

- **Relevant Math/CS Coursework:** Databases, Data Structures, Data Mining, Discrete Math, Linear Algebra, Calculus III, Differential Equations, Graph Theory, Statistics, Geometry, Numerical Analysis
- **Minors:** Physics and Geography
- **Extracurriculars:** TMU Data Science Association, TMU Competitive Programming Club, TMU Chess Club

## Projects

### CHECK-MATE VERIFICATION

- Utilized critical thinking and problem-solving skills to develop a Canadian ID verification website that processed ID images and extracted relevant information using OpenCV and Tesseract OCR. This resulted in a **50%** reduction in fraudulent loan applications, saving the company an estimated **\$100,000** in losses annually
- Demonstrated curiosity and passion for machine learning and computer vision by exploring and experimenting with various deep learning models, resulting in a **20%** increase in accuracy of face detection

### GEXTURE BEYOND

- Demonstrated excellent critical thinking and creative thinking skills by developing an accessibility device that uses gesture sensing technology to play music and indicate the user's mood, resulting in a functional hardware device with an aesthetically pleasing command line interface.
- Utilized strong problem-solving and collaboration skills to develop and implement an algorithm that accurately classifies happy and stressed moods based on gesture data, achieving over **80%** accuracy.

### SHOPVANTAGE

- Demonstrated adaptability and teamwork by developing a complex web extension in just **36** hours using Node.js, React, and MySQL, resulting in a **30%** increase in user engagement and a **25%** increase in user retention.
- Leveraged critical thinking and problem-solving skills to provide users with real-time pricing and product information from over **50** online stores, enabling them to make informed purchasing decisions.

### SMILESTAT.TECH

- Demonstrated passion and enthusiasm for software development by leading a team of developers in a **24-hour** hackathon to develop a web application that analyzes intern satisfaction levels, resulting in an **80%** increase in accuracy.
- Utilized strong storytelling and out-of-the-box thinking skills to develop a user-friendly interface using Python, TensorFlow, and Flask, resulting in a functional web application.

## Technical Skills

**LANGUAGES/TOOLS:** Python, Java, C, C++, SQL, R, Power BI, Tableau, Lisp, JavaScript, Visual Basic, MATLAB, HTML, CSS, Git, VSCode, PyCharm, GitHub, Figma, UNIX, MS Word, MS Excel, MS PowerPoint, MS Office, Microsoft Azure

**LIBRARIES:** NumPy, Panda, Matplotlib, TensorFlow, Pygame, Flask, Youtube API, React, Node.js, Django, Keras, PyTorch

## Work Experience

### FINANCIAL SERVICE REPRESENTATIVE

07/2022 – Present

Cash Money | Toronto, ON

- Demonstrated strong critical thinking and problem-solving skills by effectively handling various account and loan functions, including account validation, conducting AML investigations, and performing currency exchange transactions, resulting in a 95% customer satisfaction rate.
- Utilized excellent communication and collaboration skills to create and implement successful sales strategies, resulting in a 20% increase in sales.

## Activities, Achievements, Leadership Experience

- Owner of a Shoe Store (Jsneakest)
- Become a Data Scientist, Software Engineer - LinkedIn Learning Data Engineer- Dataquest
- Participated in 'Hack the North', 'ConUhacks', 'MakeUofT', 'UottaHacks', 'UofTHacks'
- KPMG Case Competition - Regional Finalist
- Google Analytics Certified
- Participated in 'Yonex Badminton Canadian International Challenge 2020'
- President of Coding Club
- Director of TMU Data Science Association
- Specialist High Skills Major (SHSM) in Business