

Md Rahbir Mahdi

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EDUCATION

York University

Bachelor of Science in Computer Science

- Dean's Honor List (2023 – Present)

Toronto, ON

Sep. 2023 – Present

Relevant Coursework: Discrete Math, OOP, Software Tools, Computer Organizations

EXPERIENCE

FashionIQ — Co-Founder & Developer

Jan. 2025 – Apr. 2025

- Collaborated in a startup focused on leveraging AI and machine learning for personalized fashion recommendations.
- Spearheaded the development of an AI-based recommendation engine utilizing TensorFlow, Hugging Face, and OpenAI CLIP to match cultural trends and body types.
- Led efforts in data collection and preprocessing with BeautifulSoup, Scrapy, and Selenium.
- Managed large-scale data storage using Google Cloud Storage, AWS S3, PostgreSQL, MySQL, and MongoDB for structured and unstructured data.
- Collaborated with designers to align technical solutions with evolving fashion trends and user needs.

Freelance Web Developer

Apr. 2025 – Present

- Designed and developed responsive websites and web applications using React, Next.js, and Tailwind CSS.
- Collaborated with clients to gather requirements, deliver customized solutions, and iterate on feedback.
- Integrated third-party APIs and backend services to deliver dynamic, data-driven experiences.

Home Tutor

Mar. 2021 – Present

- Successfully taught Mathematics D, Physics, and Chemistry to O'level candidates.

PROJECTS

SignNavigator | Python, MediaPipe, OpenCV

Aug. 2024

- Designed and implemented a hand-gesture recognition system using MediaPipe for hand landmark detection and OpenCV for real-time video processing.
- Achieved a significant accuracy improvement from 80% to 96% by building a classification model using Random Forest Classifier and optimizing features to enhance the recognition of ASL (American Sign Language) gestures.
- Pre-processed gesture data with a custom pipeline and stored features in a structured format using Pickle for reproducibility and model optimization.
- Utilized Python libraries such as NumPy, Matplotlib, and Scikit-learn to handle data, train models, and evaluate accuracy metrics.

SnapNote | Python, Tkinter, PyTesseract

Feb. 2023

- Developed a feature-rich notebook application using Python and Tkinter, integrating a built-in dictionary powered by web scraping from Wiktionary.
- Integrated Optical Character Recognition (OCR) capabilities with PyTesseract and OpenCV, enabling users to extract text from screenshots.
- Automated screenshot organization with a custom Python script.
- Designed a dynamic, user-friendly GUI.
- Overcame challenges in image preprocessing for OCR accuracy and optimized the management of multiple app windows, improving both performance and usability.
- Extended language support by allowing word definitions in 10 languages, provided the necessary font is available.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS, R, Verilog, RISC-V Assembly

Technologies/Frameworks: ReactJS, React Native, MediaPipe, OpenCV, Scikit-learn, TensorFlow, Teachable Machine

Developer Tools: Git, Google Cloud Platform, VS Code, PyCharm, CRAN, Eclipse, Atom