Md Rahbir Mahdi

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EDUCATION

York University — Toronto, ON
Bachelor of Science in Computer Science — *Sep. 2023 – Present*
- Dean's Honor List (2023 – Present)

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

EXPERIENCE

FashionIQ — Toronto, ON
Co-Founder & Developer — *Jan. 2025 – Apr. 2025*
- Developed an AI-based fashion recommender using TensorFlow, Hugging Face, and OpenAI CLIP.
- Increased outfit match accuracy by 3x by aligning recommendations with cultural and body-type contexts.
- Scraped 100K+ fashion data entries using BeautifulSoup, Scrapy, and Selenium.
- Reduced preprocessing time by 40% with custom data cleaning scripts in Python.
- Benchmarked MySQL, MongoDB, and PostgreSQL; selected PostgreSQL for its query performance and schema flexibility.
- Improved query efficiency by 50% through optimized indexing and data normalization.
- Led model tuning, dataset engineering, and system architecture for deployment readiness.

Freelance Web Developer 🌐 — Apr. 2025 – Present
- Delivered responsive client websites using React, Next.js, and Tailwind CSS.
- Boosted page speed by up to 40% via image optimization, lazy loading, and code splitting.
- Integrated APIs (Google Maps, Stripe, Auth0) to enable real-time interactivity.
- Enhanced SEO and accessibility (WCAG 2.1) across all projects.
- Maintained projects post-launch with bug fixes, analytics integration, and performance tracking.
- Fixed bugs and tracked performance after launch with analytics tools.
- Set up GitHub Actions for automated builds and deploys, cutting release time by 75%.
- Wrote automated tests to catch bugs early, reducing errors in production by 60%.
- Redesigned layouts for mobile users, lowering bounce rates by 30%.

PROJECTS

SignNavigator | *Python, MediaPipe, OpenCV* — Aug. 2024
- Built a real-time ASL gesture recognizer with MediaPipe and OpenCV, boosting accuracy from 80% to 96%.
- Engineered a custom feature pipeline and trained a Random Forest model for robust landmark classification.
- Serialized data and model artifacts with Pickle for easy deployment and reproducibility.
- Used NumPy, Matplotlib, and Scikit-learn to preprocess data, train models, and visualize results.
- Achieved 30 FPS processing on standard laptop webcams for smooth, real-time detection.

SnapNote | *Python, Tkinter, PyTesseract* — Feb. 2023
- Developed a Tkinter notebook app with PyTesseract OCR, enabling text extraction from screenshots.
- Automated screenshot capture and categorization via a custom Python script, streamlining user workflow.
- Integrated a web-scraped Wiktionary dictionary, supporting definitions in 10 languages.
- Optimized image preprocessing to improve OCR accuracy and managed multiple app windows for a smoother UX.

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