Faiyad Ahmed Masnoon

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Education

University of Toronto (*St.George Campus*) *Expected graduation - 2029*
Honours Bachelor of Science
Computer Science Specialist, Focus in Artificial Intelligence, Mathematics minor

- **Dean's List Scholar**, CGPA: **3.53**
- **Arts & Science Internship Program** (ASIP)
- **Related Coursework:** Data Structures, Algorithms, Recursion, Logic & Proofs, Object-Oriented Programming, Runtime Analysis, Calculus with proofs, Linear Algebra I and Linear Algebra II.

Experience

Junior Software Developer *Dhaka, Bangladesh*
Navigator Technologies *June 2024 – Sep 2024*

- Developed an OCR system for extracting text from various identification documents and integrating it into a database, ensuring accurate and seamless recording of customer identities (used OpenCV and Tesseract).
- Designed and deployed an automated invoicing solution that accelerated the checkout process and significantly improved customer satisfaction metrics.

Projects

CourseGen [LLM powered course generator] *Github* *Showcase*

- Built a full-stack learning platform with React.js frontend, Flask (with blueprints) backend, and MongoDB for user progress tracking and dashboard analytics..
- Integrated LLM-based course generation (API/local models) and secure auth with Argon2 + JWT.
- Tools & Technologies: React.js, Flask, MongoDB, Argon2, JWT

ParkSight *Github* *Demo*

- Built a scalable real-time parking detection system using custom SVM (97% accuracy), tracking up to 400 spots with scoring and pathfinding.
- Tools & Technologies: OpenCV, Scikit-learn, NumPy, Python.

CardiacScan *Github* *Try Now*

- Developed a full-stack web app with an ML model predicting heart disease (88% accuracy, 87% precision) from user input (see additional metrics on GitHub).
- Tools & Technologies: Scikit-learn, Pandas, NumPy, Flask, JavaScript, Python.

Technologies

Languages: Python, JavaScript, HTML, CSS, Java

Frameworks/Libraries: React.js, Scikit-learn, OpenCV, Tesseract, Pandas, Seaborn, Flask, Matplotlib, Numpy, Tkinter, Pillow

Databases: MongoDB

Tools: VS Code, Git, Github, Jupyter Notebook