Alvi Shariar Matin

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EDUCATION

Concordia University Montreal, QC

Bachelor of Computer Science – Joint Major in Data Science *Expected Dec. 2025*

EXPERIENCE

Flutter Developer (Freelance) — Dec. 2024 – Present

3 Amigos Group Inc, 1657 Saint-Catherine St W, Montreal — *Montreal, QC*

- Designed, developed, and deployed a cross-platform **Flutter mobile app** integrated with **Firebase Authentication, Firestore, and Cloud Functions** for full-stack inventory management.
- Built real-time features including **stock adjustments, audit trails, transaction history logging, and low-stock notifications** using NoSQL database triggers and backend logic.
- Implemented secure, scalable **role-based access control (RBAC)** for Admins, Managers, and Staff with active user adoption and ongoing usage.
- App is currently in production at the flagship location, with plans to expand across all **8 branches** to streamline restaurant-wide inventory workflows.

Junior Data Analyst — Jan. 2024 – Present

3 Amigos Group Inc, 1657 Saint-Catherine St W, Montreal — *Montreal, QC*

- Tracked and reconciled daily sales, expenses, and labor costs across multiple branches using **Excel**, **Google Sheets**, and point-of-sale exports.
- Created and maintained weekly operational dashboards and custom reports to support **management decision-making** and financial audits.
- Worked cross-functionally with operations and accounting teams to streamline **data entry**, validate discrepancies, and improve reporting accuracy.

PROJECTS

Medical Image Segmentation with Deep Learning | *Python, PyTorch, U-Net* — Mar. 2025

- Achieved **1st place** and won a **$1,000 cash prize** in a competitive project sponsored by **Huron Consulting Group**, collaborating in a team to develop the top-performing solution.
- Developed automated segmentation models using a proprietary dataset of **17,375 tissue images and masks** to assist pathologists in tissue analysis.
- Trained and evaluated **U-Net, U-Net++ with SCSE attention**, and **SegFormer with ResNet34 and EfficientNet encoders**, achieving a **final IoU of 93.38%**.
- Implemented a robust data augmentation pipeline with rotations, zooming, gamma correction, and Gaussian noise to improve model generalization.

Pet Adoption Web Application - Full Stack | *Node.js, Express, EJS* — Feb. 2025

- Developed a **full-stack pet adoption platform** using **Node.js, Express, and EJS** for dynamic user interactions.
- Implemented **secure authentication and session management** with **Express Sessions and JWT**.
- Built a **RESTful API** for handling pet listings, adoption requests, and user management.
- Designed an **interactive UI** with EJS templates, enabling seamless pet submissions and real-time updates.

Food Ready Dashboard (Kitchen-Waiter Call System) | *HTML, CSS, JavaScript* — Dec. 2024

- Designed and deployed a full-screen **HTML/JS dashboard** to display food-ready alerts in a live restaurant setting, replacing manual kitchen-to-waiter calls.
- Implemented responsive **auto-scaling tiles** with staff ID tags, timers, and clickable removal for seamless use in fast-paced kitchen environments.
- Configured for **24/7 deployment in kiosk mode** via Mozilla Firefox at the restaurant's kitchen station.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript (ES6+), TypeScript, SQL, Dart, C, C++
Frameworks: Node.js, Express.js, React.js, Next.js, Flask, FastAPI, Flutter
Databases: PostgreSQL, MySQL, Firebase Firestore, MongoDB
Cloud & DevOps: Docker, Google Cloud Platform (GCP), Firebase, CI/CD (GitHub Actions)
Developer Tools: Git, REST APIs, GraphQL, WebSockets, Linux, VS Code, Postman, JIRA