Aadi Badola

416-605-2907 | aadibadola1@gmail.com | linkedin.com/in/aadibadola | aadibadola.com

EXPERIENCE

Software Developer — May 2025 - Present
Claro Customs, Full-Time — Toronto, ON

- Engineered and maintained **microservices** within a **NestJS + TypeScript monorepo**, enabling scalable handling of customs processing for U.S. and Canadian clients.
- Built **asynchronous background processors** using **BullMQ and Redis**, offloading long-running tasks and improving request throughput and system responsiveness.
- Designed and implemented **PostgreSQL entities, DTOs, and TypeORM services**, ensuring data consistency and efficient relational querying across multiple domains.
- Automated document classification, data extraction, and filing using **n8n workflows** integrated with third-party APIs, reducing manual document handling time by **over 90%**.

Research Assistant - AI Systems — Nov 2025 - Present
George Brown College, Contract Part-Time — Toronto, ON

- Designed the integration of a proprietary website builder and CRM with an **agentic LLM system** capable of generating multi-step workflows for CRM/website data orchestration
- Assisted in the development of **customized assistants using Small Language Models** enhanced with RAG capabilities using client specific website content.
- Built **tool interfaces and MCP servers** enabling structured tool calling and the integration of AI agents with proprietary software.

Research Assistant - AI & Quality Assurance — April 2025 - July 2025
George Brown College, Contract Part-Time — Toronto, ON

- Implemented a **deep learning-based computer vision system** for defect detection in manufacturing pipelines.
- Designed a **CNN-based encoder** training pipeline, achieving **generalized similarity-based anomaly detection** in few-shot and zero-shot scenarios.
- Collaborated in the implementation of a **full-stack web application** and its integration with our CV system, enabling real-time defect management and fine-tuning for new parts.

EDUCATION

George Brown College — Toronto, ON
Advanced Diploma - Computer Programming & Analysis — April 2025

- 3.98/4.0 GPA - **Graduated with Honors**.
- **Associate Dean's Award** & **Academic Excellence Award**
- **President of the Computer Science Club**

PROJECTS

Ensemble - Artist Collaboration Platform - Capstone Project — September 2024 - April 2025

- Developed a cross-platform social media mobile application enabling artists to connect, collaborate, and share creative work through **content feeds, matchmaking systems, and real-time messaging**.
- Implemented integrations with **SoundCloud for real-time music streaming** and **Ticketmaster for event recommendations** based on user preferences and geolocation.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C#, PL/SQL, Bash, HTML/CSS
Frameworks & Libraries: NestJS, React, Spring Boot, ASP.NET, FastAPI, PyTorch, TensorFlow, Pandas
Databases & Tools: PostgreSQL, MongoDB, Redis, TypeORM, Docker, Git, Linux, n8n
Collaboration & DevOps Tools: AWS, GitHub Actions, OAuth 2.0 / Azure AD, Jira