

Aadi Badola

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EXPERIENCE

- Software Developer, Full-Time** May 2025 - Present
Antek Logistics - Claro Customs 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, Contract Part-Time** November 2025 - Present
George Brown College Toronto, ON
- Designed an **agentic LLM system** capable of generating multi-step workflows integrated with a proprietary website builder and CRM
 - 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, Contract Part-Time** April 2025 - July 2025
George Brown College 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