Anay C. Shah

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Education

Toronto Metropolitan University   *Toronto, Canada*
Honors BSc in Computer Science   *Sept.2018 - Exp. Apr.2026*

- **Concentrations**: Software Engineering & Data Science
- **Entrance Scholarship**: Received $2000 for 95% high school average.
- **Relevant Coursework:** Data Structures & Algorithms, Artificial Intelligence, Database Systems, Computer Security, Comparative Programming Languages, Operating Systems, Computer Networks, Data Science

Skills

Programming   Java, Python, C++, C, HTML/CSS, MySQL, PowerBI, Flask, React, Elixir, Rust, Microsoft Office Suite (Excel, Word, Powerpoint)
Technologies   Visual Studio Code, IntelliJ, PyCharm, Emacs, Eclipse, Jupyter Notebooks, Git

Work Experience

CITI Freight Logistics   *New Jersey, US*
Software Engineer Intern   *Summer 2024*

- Developed and implemented an automated document processing system using **Python** and **Tesseract OCR**, reducing shipment data entry time by **85%** and improving accuracy to **99.2%** for **200+** daily shipments.
- Redesigned the company's client-facing dashboard using **React** and **Bootstrap**, enabling visualization of **15+** performance metrics for **150+** clients and achieving **40%** faster load times through efficient data caching.
- Integrated **Excel** reports with Python scripts, automating shipment tracking and reducing errors.
- Built a **Python-based** automation tool using **EasyOCR** and **pandas** libraries to digitize **3000+** business cards with **98%** accuracy, reducing processing time of each card to **15** seconds.
- Created thorough technical documentation for all developed tools, improving team onboarding and reducing support queries by **50%**.

Orient Technologies Ltd   *Toronto, Canada*
Data Analyst Intern   *Summer 2023*

- Built monthly **PowerBI** dashboards to track essential business metrics and sales KPIs, helping the team monitor real-time performance across 5 product lines and identify top-performing regional markets.
- Wrote and optimized complex **SQL** queries to validate and clean customer transaction data, ensuring data integrity across **17,000+** records and reducing monthly reporting errors by **40%** through systematic quality checks.
- Leveraged **Python** data analysis libraries **(Pandas, Matplotlib)** to analyze and visualize historical sales trends from 6 months of customer data, creating detailed weekly reports that helped the team identify and capitalize on a **10%-15%** increase in customer retention rates.
- Utilized Excel **pivot tables, VLOOKUP, and macros** to clean and analyze large datasets, reducing reporting time by **30%** and improving data accuracy by **20%**.

Kumon   *Brampton, Canada*
Math & English Tutor   *Summer 2023 - Winter 2024*

- Teach and support students in developing strong math and reading skills through the Kumon learning method.
- Regularly assess students' work, track their progress, and adjust instruction to meet their needs.
- Created open and effective communication channels with parents, providing updates on the students progress and addressing any concerns.

Projects

RoboCup Autonomous Robotic Planning System

Tech Stack: Prolog, Eclipse, XQuartz, AI Planning, Constraint Strict Logic Programming

- Developed an AI planning system for robotic soccer using advanced **Prolog** constraint modeling.
- Implemented precondition and successor-state axioms for autonomous robot navigation and ball interaction.
- Leveraged declarative heuristics to dynamically optimize computational search complexity, reducing algorithmic runtime by up to **70%** through innovative pruning strategies

AudioVerse - Digital Music & Audio Book Application

Tech Stack: Java, MVC Architecture, Object Oriented Programming, Data Structures

- Built MVC architecture using model layer for music library data, view layer for output formatting, and controller for audio playback logic.
- Created playlist management using stacks and queues for track history/queuing with observer pattern to handle state changes
- Implemented file handling system for audio metadata processing with error handling and data persistence

References available upon request. Can legally work in both USA and Canada.