

# Anay Shah

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## EDUCATION

### Toronto Metropolitan University

Toronto, ON

Bachelor of Science in Computer Science

Sept. 2022 – May 2026

- **Relevant Coursework:** Data Structures & Algorithms, Artificial Intelligence, Databases, Software Design, Computer Security, Data Science

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, JavaScript, SQL, Bash, TypeScript, HTML/CSS, Prolog, Elixir

**Frameworks & Libraries:** React.js, React-Native, REST API, Realm, MongoDB, Android SDK, Pandas, Numpy

**Developer Tools:** Git, AWS, Docker, VS Code, PyCharm, Jupyter Notebook, Emacs, Eclipse, Power BI

## EXPERIENCE

### Software Development Engineer Intern

May 2025 - Present

Inclusive Media and Design Centre

Toronto, ON

- Developed a cross platform health tracking app using **React Native**, **MongoDB**, and **OpenAI/Whisper APIs** for AI-driven transcription and pain analysis, supporting 500+ veterans with chronic conditions.
- Built secure cloud infrastructure with **AWS S3**, **IAM policies** and **presigned URLs** to enable HIPAA-compliant sharing of user videos and analytics across care circles (physicians, family, HCPs).
- Architected bias-corrected sentiment classifier using **multi-model data integration** and **Russell Circumplex Model-based** values, improving sentiment accuracy by **40%**.

### Software Engineer Intern

May 2024 - August 2024

Citi Freight Logistics

Edison, NJ

- 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%** 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.
- Automated business card digitization system using **EasyOCR** to process **3000+** cards, reducing processing time by **60%** and streamlining contact data extraction.

### Data Analyst Intern

May 2023 - August 2023

Orient Technologies

Remote

- Built monthly **PowerBI** dashboards tracking business metrics and sales KPIs, helping monitor real-time performance across 5 product lines and identify top-performing regional markets.
- Wrote and optimized complex **SQL** queries to validate customer transaction data, ensuring integrity across **17,000+** records and reducing reporting errors by **40%**.
- Leveraged **Python** libraries (**Pandas**, **Matplotlib**) to analyze historical sales trends from 6 months of data, creating weekly reports that identified a **15%** increase in customer retention.

## PROJECTS

### NLP Finder - Semantic File Search Engine | Python, FastAPI, FAISS, React.js, Ollama

- Created a local semantic search application utilizing **natural language queries** across any directory using **Ollama's nomic-embed-text** for **768-dimensional vector embeddings** and **FAISS** for similarity matching.
- Built **RESTful API** with **FastAPI** handling **real-time indexing** across **15+ file types**, implementing intelligent **text chunking** (1000-character segments, 200-character overlap).
- Designed **React frontend** with **syntax-highlighted previews** and system integration, optimizing search using **cosine distance metrics** for **relevance-ranked results**.

### Recreation Club Membership Application | Python, Flask, JavaScript, OpenStreetMap API, HTML/CSS

- Designed and implemented a **role-based access database management system** with **Flask**, supporting 3 roles (Member, Coach, Treasurer) with secure authentication using **session tokens** and **encrypted cookies**.
- Developed customer scheduling and payment workflows with attendance tracking and automated payment handling using CSV-based data storage.
- Implemented a **financial management module** with income/expense tracking, automated debt logging for **50+** members, and **Gmail API** integration for payment reminders, reducing manual bookkeeping by **80%**.