# 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

## 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 vector 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%**.

## 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