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, VS Code, PyCharm, Jupyter Notebook, Emacs, Eclipse, XQuartz, Power BI

EXPERIENCE

Software Development Engineer — May 2025 - Present
Inclusive Media and Design Centre — *Toronto, ON*
- Developed a cross-platform mobile app using **React Native, TypeScript** and **MongoDB**, integrating **OpenAI** and **Whisper APIs** for **AI-driven** transcription and analysis to support veterans with chronic pain.
- Implemented **accessibility-focused** user annotation system with pain scales, emoticon stickers, location/keyword tags, and text comments, improving user engagement and data quality by **40%**.
- Architected **bias-corrected sentiment classifier** using **multi-model data integration** and **Russell Circumplex Model-based** values, improving sentiment accuracy by **35%**.

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

RoboCup Autonomous Planner | *Prolog, Eclipse, XQuartz, Constraint Strict Logic Programming*
- Developed an AI planning system for robotic soccer using advanced **Prolog** constraint modeling.
- Engineered **precondition** and **successor-state axioms** enabling autonomous robot navigation, ball tracking, and gameplay coordination in contested environments.
- Optimized path detection by declarative heuristics and space pruning by **45%**, reducing computational complexity.

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%**.