ROMAN M. ABRAMOVICH

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EDUCATION

Toronto Metropolitan University | Bachelors of Science (Computer Science) **Expected Graduation 2027**

- Machine Learning, Artificial Intelligence, Linear Algebra, Operating Systems, Data Structures, Web Development, Computer Architecture

EXPERIENCE

WDI Wise Device | Software Developer Internship | C++, C#, Jenkins, AutoIt **Apr. 2025 – Aug. 2025**

- Engineered an automated firmware regression testing pipeline in **C# and Jenkins,** reducing build-to-test waiting by **5h/day** through streamlined triggered builds and archived logging.
- Implemented unit testing for **400+ SDK APIs in C++** to ensure reliability of client developer tools
- Automated 20 sensor autofocus console tests using AutoIt, **eliminating manual testing** and reducing QA cycles
- Collaborated with a **team of 20+** developers using TortoiseSVN for version control and branching workspaces

PROJECTS

NHL Game Prediction Model | Python, PostgreSQL **Sept. 2025 – Oct. 2025**

- Architected an ML model for NHL predictions **processing 11K+ games**, with automated data ingestion, feature engineering and daily inference generation.
- Achieved **86% validation accuracy** using XGBoost classifier optimized via exhaustive 5-fold cross validation (**768 parameter combinations**).
- Implemented point-in-time feature snapshot storage **minimizing query latency** by storing pre-computed features.
- Built modular ETL pipeline with distinct loaders for schedules, standings, rosters, and labels; integrated rate-limited API client with file-based caching **reducing redundant API calls by ~80%.**

TTC Bus & Streetcar Live Position Visualizer | Python, Flask, Folium, Pandas **Jan. 2025 – Mar. 2025**

- Developed full-stack Flask web application parsing GTFS-Realtime feeds to visualize live positions, speeds, and 7-level occupancy status for **170+ TTC bus and streetcar routes**
- Engineered data pipeline integrating **5 GTFS-Static datasets** with real-time Protobuf streams using Pandas, handling timezone conversions and enum mappings
- Built Folium mapping system with **dynamic zoom based** on route bounding boxes, rendering color-coded polylines and custom vehicle icons with interactive metadata popups
- Implemented real-time alert parsing to display route-specific service disruptions and **automated timestamp tracking** for data freshness validation

CERTIFICATIONS

Electronic Arts Software Engineering Job Simulation (Forage) | C++ **Sept. 2025**

- Developed **class diagrams and header files** to implement defined core objects and **system architecture**.
- Refactored data structures for performance optimization and improved runtime efficiency.

TECHNOLOGIES USED

Languages: Python, C++, C#, Java, Javascript, C, SQL, R, HTML, CSS
Web Frameworks: Flask, FastAPI, Node.js, Express.js, Streamlit, Svelte
Databases: PostgreSQL, MongoDB
Libraries: Pandas, scikit-learn, NumPy, SQLAlchemy, Mongoose, BeautifulSoup, Requests, Folium, PyTest
DevOps/Tools: Docker, Jenkins, Git, GitHub, VS Code, IntelliJ, PyCharm, Bash, Vim, TortoiseSVN, AutoIt