Rajvir Parmar

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EDUCATION

Western University   **Expected Graduation: Apr 2026**
BSc - Honors Specialization in **Computer Science** – GPA **3.9**/4.0 (Dean's List Scholar)   London, ON
- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Distributed Systems, Databases, Software Design & Architecture, Object-Oriented Design & Analysis, Software Maintenance & Testing, Introduction to Software Engineering

WORK EXPERIENCE

Solink   **Sep 2025 – Present**
Software Engineer Intern   Remote
- Developing an internal Device Health Dashboard using **React (TypeScript)** and **Go** to monitor QNAPs, enabling operators to track uptime, CPU/memory utilization, and error trends across **10K+ devices**, backed by **AWS**, **Kafka**, **Kubernetes**, and **PostgreSQL**

Riipen   **May 2024 – Aug 2024**
Software Engineer Intern   Remote
- Designed a real-time equipment monitoring system using **Python** and **RESTful APIs**, reducing **downtime by 14.7%** with predictive maintenance alerts and enabling detailed cost analysis for optimized financial planning
- Developed a **TypeScript-based command-line** application to monitor and secure IoT manufacturing equipment, integrating a **Jenkins CI/CD pipeline** to streamline updates and resolve **83** access inconsistencies/month
- Revamped inventory management with a **React**, **Node.js**, **Kubernetes**, and **PostgreSQL** based analytics system, enabling live tracking across warehouses and saving **$132,000 annually** in reduced overstock costs

Loblaw Digital   **Sep 2023 – Dec 2023**
Data Science Intern   Toronto, ON
- Engineered a multimodal recommendation engine using **PyTorch** and **TensorFlow**, boosting top-N accuracy by **18%** across **1.5M+ user interactions**, leading to increased product engagement and higher conversion rates
- Deployed and optimized **XGBoost ensemble models** for fraud detection, refactoring serving logic and model I/O to reduce inference latency from **10s to 5.6s**, enabling smoother and faster transaction flow in production systems
- Built predictive features from **10TB+** eCommerce data using **PySpark** and **SQL** (e.g., time-on-page, category recency), improving purchase intent classification precision from **0.78 to 0.92** and enabling more accurate customer targeting

Scotiabank   **Jan 2023 – Apr 2023**
Data Intern   Toronto, ON
- Refactored **Python** ETL pipelines in **GCP** by eliminating redundant I/O and accelerating **BigQuery** joins, cutting data processing time from **120 to 30 minutes** and delivering real-time sales forecasting capabilities to business stakeholders
- Engineered **SQL/SAS workflows** to analyze **100K+ transactions**, designing joins and aggregations that exposed product bundling gaps and churn indicators; results translated into an **8% increase** in insurance sales

PROJECTS

Predicting Financial Markets Using ML & Big Data – (GitHub)   **May 2025 – Aug 2025**
Western University   London, ON
- Designed and implemented a full ML pipeline in **Python** using **XGBoost**, including data ingestion from the **GDELT** dataset, feature engineering with historical S&P 500 data, model training, evaluation, and performance visualization
- Trained an **XGBoost classifier** on structured global event data and historical prices to predict S&P 500 movement, achieving **91.8% accuracy** on held-out historical data **surpassing a baseline of 52.8%**

PETHAVEN – (GitHub)   **Sep 2024 – Dec 2024**
Technologies: Java, CSS, JavaFX, Node.js, JSON, Shell Scripting   London, ON
- Developed a modular virtual pet game in **JavaFX** with real-time state synchronization, autosave via file I/O serialization, and scalable inventory management; optimized UI responsiveness to handle **200+ concurrent interactions** without dropped events
- Deployed game to itch.io and drove **250+ player sessions** via targeted Discord communities and class demos; leveraged session tracking and feedback loops to improve UX, **increasing average playtime by 42%**

SKILLS

Programming Languages: Python, Java, C++, Go (Golang), JavaScript, TypeScript, SQL
Frameworks: React, Node.js, Spring Boot, TensorFlow, PyTorch, scikit-learn, gRPC
Tools: Git/GitHub, Docker, Jenkins, CI/CD, Microsoft Azure, AWS, PostgreSQL, Redis
Concepts: Full-Stack Web Applications, Backend Systems Design, APIs, Distributed Systems, Cloud Computing, Data Structures & Algorithms, Machine Learning (EDA, Modeling, Train/Test, Results Analysis), Agile Software Development, Reliability Engineering