Rajvir Parmar

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Education

Western University (University of Western Ontario) — London, ON
Bachelor of Science (BSc) - Honours Specialization in **Computer Science** — **Graduation: Apr 2026**

- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Distributed Systems, Databases, Software Design & Architecture, Object-Oriented Design & Analysis, Software Maintenance & Testing, Introduction to Software Engineering, Unstructured Data

Work Experience

Solink — **Sep 2025 – Apr 2026**
Software Development 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**
- Implemented on-demand trigger **APIs** and parsing fixes across **6+ pipeline modules** in Solink's metrics-collector; accelerated CI test feedback by **2–3×**, normalized 100% of Mediamtx metrics for **Prometheus** compliance, and reduced **WebRTC** metric cardinality by **90%**
- Building and integrating new **C/C++** features into an **embedded Linux** environment for large-scale distributed systems, leveraging **Git** workflows to streamline collaboration across **12+ engineers** and reducing integration conflicts by **15%**

Riipen — **May 2024 – Aug 2024**
Software Engineer Intern — Remote

- Optimized an **AI**-driven video generation platform with **TypeScript and React**, fixing browser extension bugs and using **machine learning** to enhance audio transcription accuracy, reducing manual editing time for clients by **35%**
- Transitioned deployment pipelines by migrating from **EC2 to AWS Lambda**, reducing deployment times from **57 to 14 minutes** and cutting operational costs by **$4,700/month**, improving budget efficiency for cloud resources
- Implemented a **Java-based** encryption service to protect over **9,200 video assets** and containerized backend services with **Docker** to isolate workloads, unify deployments, and reduce deployment-related incidents by **47%**

Loblaw Digital — **Sep 2023 – Dec 2023**
Software Developer Internship — Toronto, ON

- Architected a financial reporting automation tool using a **Go**-based **ETL GCP pipeline**, consolidating revenue data from regional divisions and reducing the reporting cycle from **5 days** to **15 hours** while improving data accuracy
- Engineered a **Node.js**-powered security audit tool to analyze network access configurations, identifying and resolving 237 **misconfigurations** across critical infrastructure and safeguarding **50,000+ user accounts** from breaches
- Automated regression testing workflows through a **Python**-based testing framework integrated with Generative AI and LLM services, identifying **87 critical bugs** over **5 releases** and cutting manual testing time by **45%**

Scotiabank — **Jan 2023 – Apr 2023**
Software Developer Internship — Toronto, ON

- 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
- 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

Humber — **Jun 2021 – Aug 2021**
Information Technology Intern (Network) — Toronto, ON

- Monitored and maintained campus network infrastructure using **Cisco switches and routers**, **VLANs**, **DHCP**, and **DNS**, diagnosing connectivity and latency issues reducing recurring network incidents by **28%** and improving average issue resolution time by **35%**
- Supported network security by auditing and updating **firewall rules**, managing **access control lists (ACLs)**, and documenting **network topology**, helping standardize operational procedures and contributing to a **22% reduction** in outage-related escalations

Projects

Stock Price Predictor – (GitHub) — **May 2025 – Aug 2025**

- Designed and implemented an end-to-end **ML pipeline in Python** using XGBoost on the GDELT dataset and historical S&P 500 data, achieving **91.8% accuracy (vs 52.8% baseline)** through feature engineering, model optimization, and performance visualization

Skills

Programming Languages: Python, Java, Go, C/C++, Ruby, TypeScript, JavaScript, Swift, GraphQL, SQL, HTML/CSS, R
Frameworks/Tools: React, Node.js, Rails, AWS, Git, GCP, MongoDB, PostgreSQL, Kubernetes, Docker, Jenkins, Kafka, Redis
Concepts/Interests: AI/ML, Systems Engineering, Distributed Systems, Cloud Computing, Full-Stack, Security, Microservices Architecture