Harsh Kapoor

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EDUCATION

Brock University   St. Catharines, ON
Bachelor of Science, Computer Science (GPA: 3.7/4.0)   *Graduated: October 2025*

– **Relevant Coursework:** Data Structures, Relational Databases, Machine Learning, Artificial Intelligence, Statistical Inference, Linear Algebra, Regression.

TECHNICAL SKILLS

Programming & Automation: Java, JavaScript/TypeScript, Python, SQL, Linux Shell Scripting, OOP
Wireless & Verification: 5G, LTE, W-CDMA, Kubernetes, Prometheus, Grafana, System Integration
QA & Testing: Jest, Manual/Regression Testing, API Testing (Postman), Defect Tracking
Development Tools: IntelliJ IDEA, Git, Visual Studio, Node.js, Express, PostgreSQL

WORK EXPERIENCE

Junior Technical Analyst   **January 2024 – September 2024**
Ministry of Transportation   *St. Catharines, ON*

– Authored formal documentation for system enhancements and defect tracking across 3 core applications, bridging the gap between technical requirements and implementation.
– Executed weekly regression and functional testing on an enterprise system, maintaining 99.5% uptime and reliability for regional users.
– Analyzed technical defects in collaboration with DevOps teams, successfully reducing average bug resolution time by 15% through structured reporting.

Corridor Co-op Associate   **August 2022 – December 2022**
Ministry of Transportation   *St. Catharines, ON*

– Managed weekly regression testing for an enterprise system supporting 300+ regional staff, ensuring critical workflow stability across the province.
– Identified 150+ system defects and usage patterns, leading to 10 actionable recommendations for long-term workflow improvements.
– Utilized JIRA for defect management, ensuring seamless communication with DevOps teams and minimizing technical communication lag.

PROJECTS

Research using 5G Testbed | *Kubernetes, Free5GC, Prometheus, Python*   **June 2025**

– Deployed and maintained a Kubernetes-based Free5GC testbed environment to analyze core network concepts and infrastructure stability.
– Automated environment setup and data collection using custom Python and Linux shell scripts, integrated with Prometheus for real-time observability.

SaaS Resume Builder - ResumeX | *Jest, Testing Lifecycle*   **February 2025**

– Developed 65+ Jest test cases to automate execution of critical platform flows, including secure payment processing and user registration.
– Managed the full testing lifecycle from design to execution, ensuring high-quality code delivery across the platform's development phases.

Java Mobile App - Recipica | *Java, Android, Retrofit*   **January 2024**

– Architected a modular Android application using Java and OOP principles, featuring keyword search and tag-based recipe navigation.
– Integrated Retrofit for asynchronous API communication, enabling real-time data exchange and dynamic content updates.

Relational Database Design | *PostgreSQL, MS Access*   **February 2023**

– Designed and implemented a normalized relational schema for a character-based game, ensuring data integrity across PostgreSQL and MS Access.
– Developed complex SQL queries and relational mappings to handle multi-table interactions and dynamic player statistics.