

CYRIL SHAJI

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PROFESSIONAL SUMMARY

Validation Engineer and Honours Computer Science candidate experienced in SSD and NVMe firmware validation, test automation, hardware diagnostics, and defect triage. Develops validation software in C, C++, and Python for embedded multi-core systems, using debugging tools to isolate failures and verify design requirements. Brings a quality-focused approach to peer code reviews, bug fixing, Git workflows, technical status reporting, and continuous improvement.

TECHNICAL SKILLS

Embedded & Validation : C, C++, Python, SSD, NVMe, Firmware Validation, Embedded Multi-core Systems, Test Automation

Diagnostics & Quality : Failure Detection, Test Triage, Defect Reports, Bug Fixing, Debugging Tools, Root-Cause Analysis

Engineering Practices : Git/GitHub, Atlassian Suite, Peer Code Reviews, Defect Management, OOP, Data Structures, Algorithms

Systems & Development : ASIC Architecture, Code Optimization, C#, SQL, Windows Server, Hardware Diagnostics, DNS, DHCP, VLAN

WORK EXPERIENCE

The Learnistry

Software Developer – Quality & Test Automation | Waterloo, ON | Jan 2026 – Present

- Build maintainable Python and C# services for The Learnistry's tutor-booking app and website, testing tutor discovery, availability, and session-booking workflows.
- Review code, manage changes in Git, document defects, reproduce failures, debug integrations, and validate fixes across RESTful APIs and AI-enabled product features.

Conestoga SMART Centre

Validation Engineer – SSD Firmware & Hardware | Waterloo, ON | Jan 2025 – Dec 2025

- Developed C, C++, and Python validation tests and automation for SSD product lines, exercising NVMe firmware features on embedded multi-core architectures and verifying outputs against design requirements.
- Detected and reproduced test failures, performed triage with diagnostics and debugging tools, created defect reports, sightings, and pre-sightings, and collaborated with Firmware Engineers on bug fixing and validation.
- Conducted peer code reviews and Git- and Atlassian-based defect management, reported test status to technical leads and client representatives, and troubleshoot systems, reducing service-ticket resolution time by 30%.

Pronti AI

Technical Support Analyst – AI Product Validation | Waterloo, ON | Sep 2024 – Dec 2024

- Supported Pronti AI's automatic wardrobe app, which turns user-uploaded clothing photos into outfit recommendations using machine-learning algorithms.
- Reproduced and triaged image-upload, wardrobe-processing, and outfit-generation failures; documented findings and communicated actionable defect details to product and technical teams.

GoCPG

Operations Analyst – Location Intelligence Startup | Waterloo, ON | May 2024 – Aug 2024

- Supported a location-intelligence product that predicts promising sites for CPG, grocery, and retail expansion using operational, market, and geographic data.
- Built Power BI dashboards and monitored data-ingestion pipelines used to compare candidate locations, investigate data-quality issues, and report status to teams.

PROJECTS & LEADERSHIP

ConHacks

Vice President & Co-founder | Waterloo, ON | Aug 2023 – Present

- Owned technical infrastructure, event-registration workflows, and a participant portal delivering real-time updates for a hackathon serving 130+ attendees.

EDUCATION

Conestoga College, Waterloo

Bachelor of Computer Science (Honours) | GPA: 3.75 / 4.00 | Jan 2023 – Sep 2026 (Expected)