

Justin Thomas

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Experience

Operations Systems Technical Lead - QA

Aug 2024 - June 2025

ONxpress Transportation Partners / Metrolinx

Toronto, ON

- Designed and implemented a department-wide testing strategy used by a 40+ member team of engineers and managers to evaluate dataset performance, system integration, end-to-end functionality, and accessibility of the ONxpress software platform.
- Built ELT pipelines and automated data ingestion workflows to integrate GPS, network, and operational data into client databases, leveraging optimized SQL queries to increase data processing efficiency by 75% and significantly reduce manual handling.
- Authored client submittals and Interface Control Documents (ICDs) used by 100+ IT staff, outlining the deployment plan, architecture, acceptance criteria, and required cloud resources, ensuring stakeholder alignment and reducing timeline delays by 25%.
- Led a team of 6 developers to ensure accurate transmission of ONxpress vehicle data by implementing validation protocols and coordinating bug resolution in Jira, reducing deployment time and recurring data issues by 50%.
- Presented a proposal for data infrastructure and analytics tools to IT executives, successfully securing on-budget solutions to support data ingestion, reporting, and governance for integration testing and analytics.
- Coordinated with MDM vendors and Apple to develop an RFP for mobile device procurement, ensuring alignment with ONxpress hardware compliance standards and achieving 100% adherence to budget and technical requirements.

Operations Systems QA Analyst

Aug 2023 - Aug 2024

ONxpress Transportation Partners / Metrolinx

Toronto, ON

- Optimized Jira-Zephyr integration within the ONxpress testing workflow, improving collaboration, ticket traceability, and reducing resolution lead time by 20%.
- Developed and executed API endpoint validation scenarios across Azure and Oracle cloud environments for IVU Traffic Technologies software, ensuring data integrity and compliance with functional requirements.
- Created interactive Power BI dashboards and visual reports, enabling stakeholders to monitor test coverage, defect trends, and QA progress in real time.

Software Analyst Intern

Sept 2021 - Sept 2022

Thales Group

Toronto, ON

- Developed and automated vehicle on-board controller software tests in C and Python, improving code quality through comprehensive Blackbox, Whitebox, and Aggregate testing.
- Automated VectorCAST test imports using Bash scripts, improving efficiency and reducing setup time by over 50% for the team.
- Collaborated in an agile environment using IBM DOORS, Bitbucket, Jira, and Git to manage evolving software requirements and streamline testing procedures.

Technical Skills

Languages & Scripting: Python, Bash, PowerShell, JavaScript, TypeScript, Java, C++

Frameworks & CI/CD: React, Next.js, Node.js, Tailwind CSS, Jenkins, GitLab

Developer Tools: Cursor, Copilot, Git, Docker, Jupyter, Zephyr, SoapUI

Cloud & Virtualization: Azure, Oracle Cloud, AWS, Hyper-V

Databases: MySQL, PostgreSQL, MongoDB

Projects

Home Networking Lab | *pfSense, SNMP, NAS, Routing Protocols, VLAN*

- Designed and configured a home lab with a DIY pfSense router, managed switches, SNMP monitoring and network-attached storage (NAS) to simulate enterprise-grade networking.

Agenda and Budgeting Android App | *Flutter, Android Studio, FireBase*

- Developed an Android productivity and spending tracker app using Flutter and incorporated the use of cloud storage, HTTP requests, maps and APIs.

Education

Bachelor of Computer Science

Sept 2018 - April 2023

Ontario Tech University

- Recognized on President's list 2020-2023