

# JAMAAL BERNABE

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## SKILLS

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- **Development:** Python (Django), Java, JavaScript, TypeScript, React.js, Node.js, SQL, REST APIs, HTML/CSS
- **Testing & Automation:** Selenium, TestNG, Maven, Gradle, JMeter, PyTest, Synthetic Monitoring
- **Cloud & Infrastructure:** Azure (Monitor, DevOps), AWS, Docker, CI/CD Pipelines, Linux, Bash/PowerShell

## EXPERIENCE

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**Software Developer** | Aficio AI | Remote, USA Feb 2024 – Dec 2025

- Increased data throughput by 19% by engineering Python automation scripts to ingest and normalize data from 100+ unstructured sources in an Azure environment
- Optimized analytics workflows by integrating machine learning components, resulting in a 25% reduction in query latency
- Architected observability dashboards using Azure Monitor to visualize system performance metrics, enabling rapid identification of operational bottlenecks
- Standardized technical documentation and operational procedures to ensure reproducible codebases and maintainable cloud infrastructure

**Software Automation Tester** | MCCSS | Toronto, ON Aug 2022 – Aug 2023

- Reduced manual testing effort by 50% by architecting and automating 100+ test cases using Java and Selenium
- Optimised test execution and dependency management by implementing Maven and Gradle, streamlining the build process for the QA team
- Boosted test stability by 33% by leading the migration of 500+ legacy test cases from Java 8 to Java 17
- Validated system scalability under high demand by designing and executing performance load tests on REST APIs using JMeter

**System Support Officer** | Tribunals Ontario | Toronto, ON Jan 2022 – Apr 2022

- Recovered \$100,000 in assets by automating manual data workflows and identifying resource misallocations
- Constructed analytics dashboards to track the status of 1,000+ IT assets, providing leadership with real-time visibility into inventory and operational resources

**Quality Assurance Technician** | Griffith Foods | Toronto, ON Jan 2021 – Aug 2021

- Validated regulatory compliance by performing detailed data investigations, supporting root-cause analysis for non-conformance events

## PROJECTS

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**Music Insights** | Django, Python, Data Analysis, REST APIs

- Engineered a data visualization platform that parses Spotify user data to generate interactive "Mood Maps" and radar charts, visualizing the emotional landscape of playlists

**STMV (Spotify to YouTube Generator)** | React, TypeScript, Node.js, REST APIs

- Developed a full-stack web application to automate playlist migration by integrating Spotify and YouTube APIs for seamless data transfer
- Optimized front-end rendering performance using React and TypeScript, achieving a 30% reduction in load times and enhancing user experience

## EDUCATION

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**Microsoft Certified: Azure AI Fundamentals (AI-900) & Junior Data Analyst Certificate** | NPower Canada Sep 2025

**Software Engineering Technology – Artificial Intelligence** | Centennial College May 2024

**BSc, Biochemistry & Molecular Biology** | University of Toronto May 2018