

Jamaal Bernabe

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PROFESSIONAL SUMMARY

Software Developer and Data Analyst with a specialized background in Artificial Intelligence and Data Engineering. Proven experience at Aficio AI optimizing data pipelines by 19% and building observability dashboards. Combines strong Python automation skills with a rigorous scientific background to deliver accurate, high-integrity data solutions.

EXPERIENCE

Software Developer, Aficio AI – USA **Feb 2024 – June 2024**

- Built observability dashboards to visualize system performance metrics, enabling stakeholders to identify bottlenecks and improve operational health
- Developed Python scripts to automate data ingestion from 100+ unstructured sources, optimizing data throughput by 19%
- Reduced query latency by 25% by integrating ML components into analytics workflows, directly enhancing application performance
- Collaborated with engineering teams to document operational procedures and ensure reproducible, well-monitored codebases

Software Automation Tester, Ministry of Children, Community, & Social Services – Toronto, ON **Aug 2022 – Aug 2023**

- Enhanced system observability by developing scripts for structured logging and data validation, improving traceability across test pipelines
- Designed and executed automated validation scripts against REST APIs, effectively functioning as synthetic monitoring to detect service anomalies
- Participated in root-cause analysis of software defects, documenting findings and collaborating with developers to resolve integration issues

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

- Created analytics dashboards to track the status of 1,000+ assets, providing senior leadership with clear visibility into operational resources
- Automated data workflows to reduce manual toil, identifying patterns that led to \$100,000 in asset recovery

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

- Conducted detailed data investigations and validation to ensure regulatory compliance, supporting root-cause analysis for non-conformance events
- Maintained technical documentation and operational standards in a fast-paced production environment

SKILLS

- **Automation & Scripting:** Python, PowerShell/Bash, REST APIs, JSON, Data Ingestion Workflows, CI/CD Pipelines
- **Observability & Monitoring:** Dashboard Creation, Structured Logging, Performance Metrics, Root Cause Analysis, Data Visualization, Synthetic Monitoring
- **Cloud & Infrastructure:** Azure, AWS, Docker, Linux, SQL, Application Performance Monitoring Concepts
- **QA & Testing:** Regression Testing, Unit Testing, Integration Testing, STLC, Test Plan Creation, Defect Tracking

EDUCATION

Junior Data Analyst Certificate NPower Canada	Sept 2025
Software Engineering Technology – Artificial Intelligence Centennial College	May 2024
Biotechnology Diploma Centennial College	Aug 2020
BSc, Biochemistry & Molecular Biology University of Toronto	May 2018