

# Christopher Aytona

Data & Automation Engineer

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Software engineer turned data specialist with 5+ years of experience building end-to-end data pipelines, operational dashboards, and AI-driven automation at enterprise scale. Background in game development and full-stack engineering — bringing an engineer's mindset to data problems across multiple fulfillment networks spanning North America. Specializing in Python, SQL, AWS, and turning manual processes into self-running systems.

## TECHNICAL SKILLS

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**Data & Analytics:** SQL, Redshift, Spectrum, QuickSight, Pandas, Data Modeling, ETL/Datanet

**Development:** TypeScript, React, Next.js, VBA, Git, CI/CD

**Automation & Cloud:** Python, AWS Lambda, S3, DynamoDB, SQS, Slack API, Serverless (SAM/CDK)

**Tools:** QuickSight, Datanet, OpenSearch, Excel/VBA, Jupyter, Docker

## PROFESSIONAL EXPERIENCE

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**Data & Automation Engineer (L4)** — Amazon, YGK1 AMXL Fulfillment Centre Sep 2023 - Present

- Built end-to-end data pipelines from ETL extraction through validation, transformation, and delivery into KPI dashboards and automated reporting — producing **320+ scheduled outputs weekly** across multiple networks and site types
- Developed programs, tools, and automations (Python scripts, VBA macros, AI agents, Slack integrations) that collectively **replaced multiple FTEs worth of manual work** — used daily by operations teams, analysts, and leadership across the organization
- Scope spans **multiple fulfillment networks across North America** (AMXL, NAEF, Canadian sites, delivery stations) — systems adopted continent-wide beyond original site
- Designed and deployed an **AI agent orchestration platform** with persistent memory, scheduled automation, and multi-session coordination — handling operational tasks autonomously
- Created **QuickSight dashboards** and automated Slack reporting for real-time inventory, labour, and quality metrics used by site and network leadership daily
- Built **cross-network monitoring and alerting** with automated risk flagging via Lambda + SQS + Slack, covering multiple site types and geographies

**Process Assistant / Operations Analyst** — Amazon, YOO1 Fulfillment Centre Sep 2021 - Sep 2023

- Managed shift operations for 50+ associates across inbound process paths, owning real-time staffing, quality metrics, and escalation handling
- Stretched as **Bin Meister** — site space management owner responsible for bin creation/modification, pick path optimization, capacity planning, consolidation activities, and SOX compliance audits
- Started in **Inbound Problem Solve** (Process Guide stretch) — resolving receive exceptions, inventory discrepancies, and damaged goods before pivoting into analytics
- Built Python and SQL automation for inventory reconciliation and ad-hoc reporting, leading to rapid promotion and transition into data engineering

**Software Developer** — Various Studios, Toronto 2015 - 2021

- Full-stack development across game and web projects (Unity/C#, React, Node.js)
- Shipped 3 commercial titles; managed cross-functional teams of 3-8 developers
- iOS/Android builds, Git workflows, CI/CD pipelines, project management

## KEY PROJECTS

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- **FC Analytics Platform:** End-to-end data infrastructure — ETL pipelines feeding KPI dashboards, branded email reports, and Slack automations serving site and network leadership across multiple fulfillment networks
- **AI Agent Orchestration:** Autonomous platform with persistent memory, scheduled jobs, and multi-session coordination — replacing manual operational workflows at enterprise scale
- **Cross-Network Monitoring:** Automated detection and alerting system spanning AMXL, NAEF, Canadian fulfillment, and delivery station networks — processing operational signals in real-time
- **Operational Tooling Suite:** VBA macros, Python programs, browser automations, and Slack integrations that transformed manual data pulls into self-refreshing analytics — adopted by multiple teams beyond the originating site

## EDUCATION

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**Bachelor of Science (Hons), Computer Science** — Ontario Tech University 2021

**Advanced Diploma, Game Programming** — George Brown Polytechnic 2017