

ALEXANDER AYEYE

Software Developer

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PROFILE

Computer Science student with hands-on experience across the software development lifecycle, from data structure design to CI/CD-driven mobile app delivery. Strong foundation in C++, Python, and Java, with a track record of building functional, well-tested applications both independently and in team settings. Seeking a software development internship or co-op role.

TECHNICAL SKILLS

Languages: C++, C, Python, Java

Tools & Platforms: Git, Linux/Bash, GitHub Actions (CI/CD), Flutter Test, Firebase Emulator Suite, N8N

Concepts: Data Structures & Algorithms, Object-Oriented Design, REST APIs, Unit Testing, SDLC, AI & Workflow Automation

PROJECTS

Android Travel App *Flutter, GitHub Actions, Flutter Test*

- Collaborated within a team to build a full-featured Android travel application using Flutter.
- Implemented a CI/CD pipeline with GitHub Actions, automating builds and test runs on every commit.
- Wrote comprehensive tests with Flutter Test to maintain code quality across feature deployments.

Unix-Style Shell – Systems Programming *C*

- Implemented a Unix shell in C supporting command parsing, process execution, piping, and inter-process communication, deepening understanding of OS-level systems that underpin cloud and container infrastructure.

Core Data Structures Library *C++*

- Implemented a hash table from scratch using linear probing and dynamic resizing for efficient lookups.
- Built a queue supporting O(1) enqueue/dequeue and an immutable binary search tree.
- Applied algorithmic analysis to balance performance and memory tradeoffs across structures.

Ranked Leaderboard ADT *C++, Object-Oriented Design*

- Designed and implemented an Abstract Data Type for a ranked leaderboard using OOP principles.

EXPERIENCE

AI & Software Development Assistant — RCCG The Eagles Ark (TEA) — Calgary, AB June 2026 – Present

- Designed and built the foundation of a KPI tracker and a volunteer sign-up board using React, TypeScript, and Vite, replacing manual, paper-based ministry tracking processes.
- Configured a testing suite with Vitest, including dedicated test coverage for PDF generation and data privacy handling, to ensure reliability before deployment.
- Established project tooling standards (ESLint, TypeScript configs, environment variable management) to keep the codebase maintainable as a small technical team scales the CRM.
- Organized and validated ministry datasets to support AI-driven outreach initiatives, improving data quality and accuracy for reporting.
- Collaborated with a small technical team to document architecture decisions and uphold responsible AI and data management practices.

Cast Member — Silvercity Cineplex — Calgary, AB May 2024 – Present

- Diagnosed and resolved technical issues with arcade machines, strengthening troubleshooting skills.
- Communicated clearly and discreetly with guests and staff during high-stakes, time-sensitive scenarios.

Customer Service Associate — Ilycburg — Calgary, AB May 2023 – March 2024

- Managed cashier duties with strong accuracy in cash handling and customer interactions.
- Supported sales and promotional initiatives, contributing to store performance goals.

EDUCATION

Bachelor of Science – Computer Science 2023 – 2028 (Anticipated)

Mount Royal University, Calgary, AB

- Dean's Honour Roll (2023) — Cumulative GPA: 3.3 / 4.0

COMMUNITY INVOLVEMENT

Lead Volunteer — Bloom Wellness Collective — Calgary, AB May 2021 – August 2021

- Led outdoor activities for children with disabilities, helping nurture their individual talents and skills.
- Built trust and rapport with participants through mindful, patient-centered communication.