Jahiem Sharma-Manley Allen

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Education

York University – Lassonde School of Engineering Expected Apr. 2028
BASc, Computer Science for Software Development, Cloud Computing Stream *Markham, ON*

- **Relevant Coursework:** Data Structures & Algorithms, Software Design, Intro to Cloud Computing

Experience

Backend Engineer Jan. 2026 – Apr. 2026
Hatchloom

- Developed **containerized PHP microservices** within a **20-person, five-team engineering project**, applying **Adapter and Strategy design patterns** to maintain modular service boundaries.
- Implemented a **DTO-based contract layer** for inter-service communication, defining data structures for integration across independently developed services.
- Built a **GitHub Actions CI/CD pipeline** automating testing and container image builds, including multi-architecture images for **amd64 and arm64**.
- Diagnosed and resolved **distributed-service integration failures**, troubleshooting DNS resolution, container networking, and state consistency across service boundaries.

Technical Director Dec. 2024 – Sep. 2026
Markham Student Council *Markham, ON*

- Led development of a **Cloudflare-backed platform** using **Next.js and TypeScript**, serving **144,000+ requests** across **7,000+ visits** through optimized caching and request delivery.
- Reduced **LCP from 5.8s to 600ms** through media optimization using **Cloudflare R2 and image transformations**.
- Coordinated technical decisions with a **team of 6**, managing deployments, feature rollouts, and platform updates for student-facing services.

Projects

Open Source API Contributor | *Python, FastAPI, BeautifulSoup, GitHub*

- Designed and maintained a **data ingestion pipeline** generating **40K+ lines of JSON** for **4,200+ professors and 292 programs**, with execution times under 500ms.
- Refactored and extended **API endpoints** during a migration to FastAPI, improving modularity, performance, and developer experience.

Autonomous Robot Delivery | *Java, Spring Boot, Python, MySQL*

- Designed and implemented a **Spring Boot MVC backend**, applying **6+ design patterns** with a dependency-injected service architecture.
- Built **REST endpoints** for robot coordination workflows, integrated a Python Q-learning module, and modeled **6 MySQL entities**.

Leadership & Involvement

Engineering Peer Mentor Aug. 2025 – Present
York University Markham Campus

- Guide **40+ engineering students**, providing information on campus events and general support to promote student success and retention.

President, Computing Students Hub Markham Sep. 2025 – Sep. 2026
York University

- Led an executive team of **8+** overseeing initiatives and operations for a **100+ member community**.

Technical Skills

Languages: Java, Python, TypeScript, C, PHP, Bash
Backend: Spring Boot, FastAPI, Express.js, Laravel
Cloud & Infrastructure: Docker, Cloudflare, CI/CD, GitHub Actions
Databases: PostgreSQL, MySQL, MongoDB
Frontend: React.js, Next.js