

Joshua Chidera Onyema

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Location: Montreal, Quebec

EDUCATION

Master of Engineering, Software Engineering (Co-op) - CGPA: 3.95/4.30 Jan. 2025 – Dec. 2026 (Expected)*Concordia University, Montreal, Quebec*

Golden Key Honours Scholar, Courses: Programming and Problem Solving, Advanced Programming Practices, Software Refactoring

Bachelor of Science, Computer Science - CGPA: 4.72/5.00

Sep. 2017 – Jul. 2021

Godfrey Okoye University, Enugu, Nigeria

Vice Chancellor's Academic Scholarship Recipient, Best Graduating Student, Department of Computer Science (Class of 2021)

TECHNICAL SKILLS

Programming	Java, Python, JavaScript
Backend	Spring Boot (REST, Security), JPA/Hibernate
Data	PostgreSQL, MongoDB, Kafka, Redis, transactions, schema design, indexing
Cloud & DevOps	Docker, GitHub Actions, Linux
Testing & Tools	JUnit 5, Mockito, Git, IntelliJ IDEA, VS Code, Postman
Frontend	React, Next.js, Three.js
Languages	English (Advanced), French (Intermediate)

WORK EXPERIENCE

Software Development Intern

May. 2026 – Present

FlexSpring, Montreal, Quebec, Canada

- Worked with the Monitor team using Java, Spring Boot, React, PostgreSQL, MongoDB, Docker, and BPMN to develop and maintain the Monitor system, resolving bug fixes and performance-related tickets across the Monitor, Studio, and Onboard applications
- Contributed to the Billing Management Server and other backend services by implementing new features, resolving defects, optimizing application performance, and collaborating with cross-functional teams to deliver reliable, scalable software solutions

Teaching Assistant

Sep. 2025 – Apr. 2026

Concordia University, Montreal, Canada

- Lab Programmer on Duty for Object-Oriented Programming II [Sep. 2025 – Dec. 2025] and Programming and Problem Solving [Jan. 2026 – Apr. 2026], providing Java debugging and problem-solving support for 30+ students and supporting grading exams

Full-Stack Java Engineer, Platform Operations (Contract)

May. 2025 – Dec. 2025

Leverage Markets (StriveFX, FundedFX), Dubai, United Arab Emirates (Remote)

- Designed and implemented Java backend services integrating MT5, cTrader, and MatchTrader with internal CRM workflows for unified user, account, and trade lifecycle management, using Spring Boot, REST, and SQL
- Built REST APIs and data pipelines backed by PostgreSQL and AWS services, reducing manual operational workflows and reconciliation effort by approximately 40%, using structured logging, CI validation, and Dockerised deployments
- Developed internal React and TypeScript dashboards consuming Java APIs, and added usage metrics and structured event logging to support data-informed iteration, improving operational response time by about 30% and reducing release regressions by roughly 25%

Java Backend Developer

Aug. 2021 – Dec. 2024

Brainstorm IT Solutions, Kano, Nigeria (Hybrid)

- Delivered Java backend services for early-stage products, building REST APIs with Spring Boot, Bean Validation, and exception handling to support core features and reduce feature turnaround time by about 25% across client projects
- Modelled relational data with Spring Data JPA and PostgreSQL (entities, relationships, transactions), and optimized SQL queries and indexing to improve API response times by about 30% under production load
- Implemented authentication and authorization with Spring Security and JWT, and improved reliability by introducing automated tests with JUnit 5 and Mockito, reducing post-release defects by roughly 30% across maintained systems

Full-Stack Web Developer

Jul. 2023 – Oct. 2024

Multi-Life Savers, Enugu, Nigeria

- Built and maintained Java backend services and REST APIs with Spring Boot, integrating with React and TypeScript frontends to support internal operations and public-facing platforms used across multiple programs
- Migrated legacy PHP workflows to a Java service layer and modern React, TypeScript frontend, improving responsiveness and page load times by approximately 40%, and reducing recurring runtime issues
- Automated content publishing and operational workflows using platform tooling and scripts, reducing manual effort by about 30% and improving consistency across recurring campaigns and updates

Teaching Assistant, Computer Science and Statistics

Nov. 2021 – Sep. 2022

Federal College of Agricultural Produce Technology, Kano, Nigeria

- Assisted in teaching programming and data analysis methodologies, guided students in thesis data analysis using Python, and collaborated on curriculum development

Software & Network Intern

Jun. 2020 – Dec. 2020

Nigerian Maritime Administration & Safety Agency (NIMASA), Lagos, Nigeria

- Assisted network operations and enterprise onboarding by troubleshooting connectivity issues (DNS, DHCP, routing basics, HTTP/HTTPS checks) and supporting system setup, access provisioning, and user training for 150+ staff

PROJECTS

Dtached, Sports Tournament Management Platform

2026

Java 25, Spring Boot 4, PostgreSQL, React 19, TypeScript, Tailwind CSS, Stripe, DocuSign, Postmark, AWS S3, Railway, Flyway

- Architected and developed a full-stack platform for 7v7 flag football tournaments with multi-role dashboards (admin, coach, player, staff), Stripe-powered checkout with webhook-driven fulfillment and partial refund/dispute handling, DocuSign-backed eSignature waivers, and bilingual (FR/EN) i18n across 1,700+ translation keys
- Implemented JWT authentication with Google OAuth and WebAuthn passkeys, applied the Strategy pattern for multi-type payment checkout flows, built a centralized API client with mutex-protected token refresh to eliminate race conditions, enforced role-based access via @PreAuthorize with token-bucket rate limiting, and shipped 60+ Flyway migrations with soft-delete enforced via @SQLRestriction

Kaleo, Church and Program Events Management API

2026

Java, Spring Boot, PostgreSQL, Keycloak (OIDC), Adminer, Docker Compose

- Designed and developed a secure REST API for program publishing, capacity-limited registrations, QR-coded pass issuance, and staff check-in validation with duplicate entry prevention
- Implemented OAuth2/OIDC authentication with Keycloak for role-based access control, enforced transactional capacity constraints under concurrent registrations, and used layered architecture with MapStruct DTO mapping

Refactoring Study, Open-Source Java Systems

2025

Java, SonarQube, RefactoringMiner, Git

- Performed maintenance tasks on refactored and non-refactored versions of popular open-source systems (H2 Database, JFreeChart, OpenPDF) to evaluate the impact of refactoring on code quality, maintainability, and change effort

CLI RiskGame, Warzone Variant

2025

Java, State, Adapter, Command, JUnit, GitHub Actions, UML

- Developed a command-line strategy game in Java using State, Adapter, and Command patterns to manage game phases, save and load features, and gameplay commands, implemented unit testing with JUnit, generated JavaDocs, and integrated GitHub Actions for CI, performing iterative refactoring and maintaining UML-aligned architecture across three builds

VOLUNTEER & LEADERSHIP

Member

Sep. 2025 – Present

National Society of Black Engineers (NSBE), Concordia Chapter, Montreal, Canada

- Participate in technical workshops, networking events, and student-led engineering initiatives

Lead Front-End Tutor

Jun. 2024 – Dec. 2024

Multi-Life Savers Techpreneurship, Enugu, Nigeria

- Delivered structured sessions and practical assignments on HTML and CSS to support large-scale community learning programs

State Lead & President

Nov. 2021 – Sep. 2022

DO-DEEL Youth Community Development Service, Kano, Nigeria

- Led digital inclusion and programming workshops for secondary school students and community members

Student Record

Joshua Onyema

Student ID: 40293065

4-2250 Boul St Joseph E

Montreal, QC

Canada H2H 1G3

Birthdate: 07/03/2001

Permanent Code: ONYJ69280103

Telephone: 263/881-5935

Graduate Academic Program History

Active in Program

16/09/2024

Admit Term

Winter 2025

Matriculated

Master of Applied Computer Science

Computer Science

Active in Program

01/09/2025

Degree Transfer

Master of Engineering

Software Engineering

Active in Program

17/09/2025

Member Institute for Co-operative Education

Master of Engineering

Software Engineering CO-OP

Status:

Full-Time

Min. Credits Required:

45.00

Time Limit:

12/01/2030

Program Credits Earned:

36.00

Cumulative GPA:

3.86

Beginning of Graduate Record

Winter 2025

Master of Applied Comp Science, Computer Science

COURSE				DESCRIPTION		ATTEMPTED	GRADE	NOTATION	GPA	PROGRAM CREDITS EARNED	OTHER
COMP	6481	DD		PROGRAM & PROBLEM SOLVING		4.00	A		4.00	4.00	
SOEN	6441	WW		ADV. PROG. PRACTICES		4.00	A-		3.70	4.00	
SOEN	6841	W		SOFTWARE PROJECT MANAGEMENT		4.00	A		4.00	4.00	

Term GPA 3.90

Summer 2025

Master of Applied Comp Science, Computer Science

Summer Grad Access - Master of Applied Comp Science, Computer Science

Fall 2025

Master of Engineering - COOP, Software Engineering CO-OP

COURSE				DESCRIPTION		ATTEMPTED	GRADE	NOTATION	GPA	PROGRAM CREDITS EARNED	OTHER
COMP	6461	EE	COMPUTER NETWORKS + PROTOCOL		4.00	A			4.00	4.00	
SOEN	6431	EE	SOFT. COMP.& MAINTENANCE		4.00	A-			3.70	4.00	
SOEN	6491	SS	SOFTWARE REFACTORING		4.00	A+			4.30	4.00	

Term GPA 4.00

Winter 2026

Master of Engineering - COOP, Software Engineering CO-OP

COURSE				DESCRIPTION		ATTEMPTED	GRADE	NOTATION	GPA	PROGRAM CREDITS EARNED	OTHER
SOEN	6111	UU	BIG DATA ANALYTICS		4.00	B			3.00	4.00	
SOEN	6461	WW	SOFTWARE DSGN METHODOLOGIES		4.00	A			4.00	4.00	
SOEN	6751	W	HUMAN COMPUTER INTERFACE DES		4.00	A			4.00	4.00	

Term GPA 3.67

Summer 2026

Master of Engineering - COOP, Software Engineering CO-OP

COURSE				DESCRIPTION		ATTEMPTED	GRADE	NOTATION	GPA	PROGRAM CREDITS EARNED	OTHER
WILE	600	WT	ENGINEERING AND COMP SCI I		0.00					0.00	
WILE	601	WT	ENG / COMP SC REF LRN ACT I		3.00					0.00	
SOEN	6481	CC	SYSTEMS REQMT. SPECIFICATION		4.00					0.00	

Fall 2026

Master of Engineering - COOP, Software Engineering CO-OP

COURSE				DESCRIPTION		ATTEMPTED	GRADE	NOTATION	GPA	PROGRAM CREDITS EARNED	OTHER
SOEN	6611	D	Software Measurement		4.00					0.00	

End of Student Record