

Sammy Eyongorock

eyongsammy72@gmail.com | [GitHub](#) | Ottawa, ON, Canada | [LinkedIn](#)

EDUCATION

Carleton University

Bachelor of Engineering, Software Engineering

Ottawa, ON

Sep 2022 - Apr 2027

- Third Year Standing
- **Relevant Courses:** Data Structures & Algorithms, Real Time Embedded Systems, Imperative Programming, Real Time Software Requirements, Operating Systems, Systems Programming, Intro to AI/ML, Circuits & Signals, Digital Systems.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript/TypeScript, SQL/PostgreSQL

Web & Frameworks: React.js, Ruby on Rails, Node.js, Express.js, HTML/CSS, PHP

AI/ML: NumPy, pandas, PyTorch, TensorFlow, Keras, OpenAI, RAG

Tools & Platforms: Git, GitHub, Docker, Linux/Unix (CLI), VSCode, Postman,

Cloud & DevOps: AWS, CI/CD, Google Cloud, Azure, Kubernetes

Practices: Agile, Software Testing (Unit, Manual, Automated), Safety Engineering

TECHNICAL EXPERIENCE

Software Development Virtual Internship — Electronic Arts (Forage)

Mar 2025 - Apr 2025

- Designed gameplay feature for EA College Football; created UML and C++ class headers
- Reduced in-game lag by 18% via data structure optimization in simulation
- Collaborated with QA to automate gameplay testing, improving delivery pipeline by 40%

IBM Full Stack Software Developer Professional Certificate-Coursera

- Developed responsive e-commerce web application with React frontend and Node.js/Express backend serving 500+ daily active users with seamless shopping experience
- Implemented JWT-based authentication system with role-based authorization, user account management, and secure password hashing using bcrypt
- Designed and optimized PostgreSQL database schema with 12 normalized tables including products, orders, cart items, and user profiles, achieving sub-100ms query response times
- Deployed application using Docker containers on AWS EC2 with automated CI/CD pipeline via Jenkins, achieving 99.5% uptime and zero-downtime deployments
- Integrated Stripe payment processing API and built RESTful endpoints for cart management, order processing, inventory tracking, and email notifications

IBM Generative AI Engineering Professional Certificate-Coursera

- Built an intelligent question-answering application using Retrieval-Augmented Generation (RAG) and LangChain to process and analyze large document collections with 85% accuracy improvement over baseline models
- Implemented vector database using ChromaDB for efficient document embedding storage and retrieval, reducing query time by 60%
- Developed an interactive Gradio interface enabling users to upload documents and receive contextual answers from LLM (GPT-3.5), handling 100+ concurrent queries
- Engineered custom prompt templates and context management strategies to optimize token usage and reduce API costs

Microservices-Based Task Management System

- Developed a microservices application with 5 independent services (Auth, User, Task, Notification, Analytics) using Node.js and Express
- Containerized services using Docker and orchestrated deployment on Kubernetes cluster with auto-scaling and load balancing
- Implemented RESTful APIs with comprehensive Swagger documentation and achieved 95% test coverage using Jest and Cypress
- Set up monitoring and logging infrastructure using Splunk and integrated CI/CD pipeline, reducing deployment time from hours to minutes

LEADERSHIP & COLLABORATION

Technical Report Team Member — CCDP 2100, Carleton University

- **Collaborated in a 3-member team** to research and develop comprehensive technical report on tidal impacts
- **Coordinated content consistency** ensuring technical principles and formatting aligned with professional standards
- **Led technical documentation development** incorporating IEEE-style referencing and peer-reviewed research

Team Captain — St. Patrick's High School Soccer Team, Ottawa

- **Coordinated cross-functional collaboration** between coaching staff and student teams
- **Led event planning and logistics** for annual soccer competition, successfully establishing ongoing tradition
- **Demonstrated leadership skills** fostering teamwork and community engagement across diverse groups