Melissa Aoko

+1 (368) 887-2200 | melissa.aoko@ucalgary.ca | https://github.com/melissa-aoko | melissa-aoko.vercel.app

EDUCATION

Bachelor of Science,Computer Science   *Sep 2023 - June 2027*
University of Calgary , Alberta
- Concentration in Networks and Distributed Computing
- Science Co-op Program

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Programming Paradigms, Database Management Systems, Generative AI in Software Development, Application Development , Data Visualization, Data Analysis, Object Oriented Programming
Certifications: The Complete SQL Bootcamp(Udemy)
                             IBM Data Analytics Professional Certificate(Coursera, Dec 2025-Present)
Member: Rewriting The Code, ColorStack, African Caribbean Students' Association

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, C, Bash
Frontend: React.js, Next.js, HTML, CSS, Tailwind CSS, JavaScript
Backend: Node.js, REST APIs, Firebase
Databases: MySQL, PostgreSQL
Cloud & DevOps: AWS (EC2, S3, IAM), Docker, Git, GitHub, CI/CD
Data & Analytics: Pandas, NumPy, Matplotlib

WORK EXPERIENCES

HeadStarter   **Remote**
Software Engineering Apprenticeship | Java, Next JS, Open AI, Firebase, Stripe API   *July 2024 - Sep 2024*
- Built and shipped full-stack web features using React, Next.js, and JavaScript in a 4-person agile team
- Designed and implemented RESTful APIs and integrated third-party services for real-time data updates
- Collaborated in sprint planning, standups, and retrospectives following agile best practices
- Contributed to CI/CD pipelines to support rapid iteration and deployment
- Solved algorithmic problems and participated in mock technical interviews focused on data structures

PROJECTS

AI-Powered Interview Platform | Next.js, TypeScript, Firebase, Vapi, Gemini   *Dec 2025*
- Built a secure, server-rendered Next.js application for AI-powered mock interviews with authenticated sessions
- Integrated a real-time AI voice agent (Vapi) to simulate technical interviews with personalized questioning
- Developed an interview generation and feedback pipeline using Gemini LLMs, delivering actionable performance insights
- Implemented responsive UI components with Tailwind CSS and ensured maintainable, type-safe code using TypeScript
- Managed authentication and persistent data storage with Firebase, supporting scalability and data integrity

Medical ChatBot | Python, LangChain, Groq, Flask   *Dec 2025*
- Developed AI chatbot for medical queries with context-aware conversation memory
- Implemented secure data storage for chat history and integrated LangChain for advanced NLP
- Designed responsive UI and tested end-to-end functionality for realistic user interaction

LEADERSHIP

African Caribbean Students' Association   **University of Calgary**
VP of Academics   *Sep 2025 – Present*
- Planned and delivered academic and career-development workshops to support student success and internship readiness
- Coordinated with the executive team to design academic initiatives that improved student engagement and performance
- Provided centralized learning resources and academic support to help students stay aligned with coursework requirements