Melissa Aoko

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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

Member: Rewriting The Code, ColorStack, African Caribbean Students' Association

Certificates: The Complete SQL Bootcamp(Udemy), Amazon Junior Software Developer Certificate (Coursera), IBM Data Analytics Certificate (Coursera)

TECHNICAL SKILLS

Programming Languages: C, Python, Java, JavaScript, SQL, Bash, HTML, CSS

Frameworks & Tools: React.js, Node.js, Git, GitHub, Docker, AWS (EC2, S3, IAM), Google Cloud Platform, MySQL, PostgreSQL, Pandas, NumPy, Matplotlib

WORK EXPERIENCES

HeadStarter   **Remote**
Software Engineering Apprenticeship | Java, Next JS, Open AI, Firebase, Stripe API   *July 2024 - Sep 2024*
- Developed a personal portfolio website and collaborated with 3 fellows to work on software engineering projects following agile methodologies, with weekly sprints and incorporated CI/ CD practices for iterative development
- Built a smart pantry full-stack application that allows users to seamlessly manage their pantry groceries from any device and make updates in real-time.
- Participated in weekly coding challenges and hackathons, gaining hands-on experience in problem-solving and algorithmic thinking
- Engaged in mock DSA interviews to refine technical interview skills, focusing on data structures, algorithms and system design
- Participated in sessions with engineers from Google, Y Combinator, Stanford, Amazon and venture-backed startups

PROJECTS

Voice Agent Mock 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 user 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

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