

SAMANTHA (SAM) LUI

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EDUCATION

Bachelor of Computer Science (Third Year) University of British Columbia	September 2024 – May 2027
Advanced Diploma – Clinical Genetics (88%) British Columbia Institute of Technology	August 2020 – October 2021
Bachelor of Health Sciences (Dean's Honour Roll) Simon Fraser University	September 2011 – December 2017

PROFESSIONAL EXPERIENCE

CIHI – Incoming Applied Cloud Architecture Developer Intern North York, O.N.	January 2026 – April 2026
• Will assist application architects in the design and development of cloud migration proof-of-concepts for the Cloud Maturity Project, with focuses on AWS , CI/CD pipelines with GitLab , and containerization technologies	
Shared Services Canada – I.T. Analyst Co-op Student Vancouver, B.C.	August 2025 – Present
• Delivering Windows 11 imaging , BIOS configuration and QA testing for hardware deployments via Service Manager 9 , ensuring reliable end-user system performance	
• Managing Microsoft Azure user states via MDM and SCCM , leveraging PowerShell scripts for account provisioning and access management to maintain secure enterprise environments	
• Developing automation tools with Python , Tkinter and Selenium to streamline ticket workflows and shipment processing, cutting manual data entry errors and improving processing speed by 75%	
• Authored a 60+ page training guide standardizing support procedures, now adopted as a core onboarding resource for new co-ops across the Desktop Support Services regional teams	
Provincial Health Services Authority – Clinical Genetics Technologist Vancouver, B.C	July 2021 – August 2024
• Executed high-throughput genetic analyses under standardized protocols, delivering timely and accurate results reporting	
• Liaised with IT/vendors to troubleshoot LIS and equipment software/hardware issues, reducing operational downtime	

TECHNICAL PROJECTS

JobQuest AI – AI-Powered Job App Assistant <i>Next.js, AWS Bedrock, ElevenLabs</i> GitHub	October 2025 – October 2025
• Designed a gamified job search assistant with a Next.js video-game style UI, increasing engagement via interactive resume reviews and voice-based mock behavioural interviews	
• Planned and prototyped AI-powered features (AWS Bedrock , ElevenLabs), delivering personalized, score-based insights	
AniMori – Anime Library Desktop App <i>Electron.js, React, Vite, SQLite, Node.js, Jikan</i> GitHub	
• Developing a cross-platform Electron.js + React desktop app with automated metadata retrieval via the Jikan API	August 2025 – Present
• Implemented IPC channels for client-to-backend connectivity, and optimized SQLite database schema with DBeaver to streamline data flow and improve query efficiency	
SipLy – Beverage Intake Visualization Tool <i>React, Spring Boot, H2, Spring AI, Groq</i> GitHub	July 2025 – Present
• Scaling a Java application into a React + Spring Boot web app with Recharts for dynamic beverage intake visualizations	
• Designed RESTful CRUD APIs with H2 and secure BCrypt authentication, ensuring reliable data storage	
• Planning integration of Spring AI with Groq LLaMA3 for personalized beverage recommendations, based off user data	
PantryPal – AI Recipe Generator <i>React, Vite, Express.js, MongoDB, Groq</i> GitHub	March 2025 – March 2025
• Built an Express.js and MongoDB Atlas backend to support cloud-based pantry tracking in a full-stack AI recipe generator	
• Integrated Groq's LLaMA 3.3 API with a dynamically engineered prompt to automate recipe generation from user inputs	

EXTRACURRICULARS & LEADERSHIP EXPERIENCE

UBC BCS – BU1DL Mentor Vancouver, B.C.	August 2025 – Present
• Mentoring 3 junior CS students, providing guidance on project development with monthly check-ins to maintain progress	

TECHNICAL SKILLS

Languages Python, Java, JavaScript, C++, PowerShell (currently acquiring), SQL, R, HTML5, CSS3
Frameworks/Libraries React.js, Node.js/Express.js, Next.js, Electron.js, Spring Boot, JUnit Jupiter
Databases PostgreSQL, MongoDB (NoSQL), SQLite, H2
Developer Tools Git, GitHub, Netlify, Postman, Vite, Jupyter Notebooks, Groq, Selenium
Cloud & Enterprise Systems Service Manager 9, Microsoft Azure Active Directory, Mobile Device Management (MDM), Microsoft Endpoint Configuration Manager (SCCM)