

# SAMANTHA (SAM) LUI

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EDUCATION

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

## TECHNICAL PROJECTS

<b>JobQuest AI – AI-Powered Job App Assistant</b>   <i>Next.js, AWS Bedrock, ElevenLabs</i>   <a href="#">GitHub</a>	<i>October 2025 – October 2025</i>
• Designed a gamified job search assistant with a <b>Next.js</b> video-game style UI, increasing engagement via interactive resume reviews and voice-based mock behavioural interviews	
• Planned and prototyped AI-powered features ( <b>AWS Bedrock, ElevenLabs</b> ), delivering personalized, score-based insights	
<b>AniMori – Anime Library Desktop App</b>   <i>Electron.js, React, Vite, SQLite, Node.js, Jikan</i>   <a href="#">GitHub</a>	<i>August 2025 – Present</i>
• Developing a cross-platform <b>Electron.js + React</b> desktop app with automated metadata retrieval via the <b>Jikan API</b>	
• Implemented IPC communication ( <b>ipcRenderer, ipcMain</b> ) and optimized <b>SQLite</b> queries, enabling smooth data flow	
• Optimized database schema with <b>DBeaver</b> to support extensible features (I.e., ratings, comments)	
<b>SipLy – Beverage Intake Visualization Tool</b>   <i>React, Spring Boot, H2, Spring AI, Groq</i>   <a href="#">GitHub</a>	<i>July 2025 – Present</i>
• Scaling DailySips into a <b>React + Spring Boot</b> web application with <b>Recharts</b> for dynamic beverage intake visualizations	
• Designed <b>RESTful CRUD APIs</b> with <b>H2</b> and secure <b>BCrypt</b> authentication, ensuring reliable data storage	
• Planning integration of <b>Spring AI</b> with <b>Groq LLaMA3</b> for personalized beverage recommendations, based off user data	
<b>Pantry Pal – AI Recipe Generator</b>   <i>React, Vite, Express.js, MongoDB, Groq</i>   <a href="#">GitHub</a>	<i>March 2025 – March 2025</i>
• Built an <b>Express.js + MongoDB Atlas</b> backend to support cloud-based pantry tracking in a full-stack AI recipe generator	
• Integrated <b>Groq's LLaMA 3.3 API</b> and engineered dynamic prompts to automate recipe generation from user inputs	
<b>DailySips – Health Logging App</b>   <i>Java, JUnit Jupiter, Java Swing</i>   <a href="#">GitHub</a>	<i>January 2025 – April 2025</i>
• Applied <b>OOP</b> principles and TDD unit testing to build a Java CLI + <b>Swing</b> tracker with 100% <b>JUnit</b> coverage and JSON data persistence, ensuring code robustness	

## PROFESSIONAL EXPERIENCE & TECHNICAL WORK

<b>Shared Services Canada – I.T. Analyst Co-op Student</b>   Vancouver, B.C.	<i>August 2025 – Present</i>
• Delivering <b>Windows 11 imaging, BIOS configuration</b> and QA testing for hardware deployments via <b>Service Manager 9</b> , ensuring reliable end-user system performance	
• Managing <b>Microsoft Azure</b> user states via <b>MDM</b> and <b>SCCM</b> , leveraging <b>PowerShell</b> scripts for account provisioning and access management to maintain secure enterprise environments	
• Developing automation tools with <b>Python, Tkinter</b> and <b>Selenium</b> to streamline ticket workflows and shipment processing, reducing manual data entry errors and improving processing speed by <b>75%</b> ; deployment planned for a 5-member unit	
• Authored a <b>60+</b> page training guide standardizing support procedures, currently under review as a national onboarding resource for future co-ops across the Desktop Support Services team	
<b>Provincial Health Services Authority – Clinical Genetics Technologist</b>   Vancouver, B.C	<i>July 2021 – August 2024</i>
• Executed high-throughput genetic analyses under standardized protocols, delivering timely and accurate results reporting	
• Liaised with IT/vendors to <b>troubleshoot</b> LIS and equipment software/hardware issues, reducing operational downtime	

## EXTRACURRICULARS & LEADERSHIP EXPERIENCE

<b>UBC BCS – BU1DL Mentor</b>   Vancouver, B.C.	<i>August 2025 – Present</i>
• 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, Confluence, Microsoft Azure Active Directory, Mobile Device Management (MDM), Microsoft Endpoint Configuration Manager (SCCM)