

Melvin Teo

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EDUCATION

Bachelor of Science (B.Sc.) in Computer Science - 4.00 GPA

Expected Grad: April 2025

The University of British Columbia, Vancouver, BC

EXPERIENCE

Software Engineer Intern, Amazon

May 2023 - Present

- Optimizing the Amazon Prime membership cancellation flow to provide a simplified, frustration-free, and informative customer experience

Amazon Future Engineer Intern, Amazon

May 2022 - August 2022

Technologies: Bash, FreeMarker, Git, Manual Development Entry Testing

- Implemented customer-facing features related to a Pause & Resume membership state for **millions** of worldwide Amazon Prime customers, helping to retain **tens of thousands** of customers annually
- Wrote **10+ Bash** scripts to automate the implementation of **11** features (e.g. customer emails, risk message widgets, etc.) across 14 countries, reducing expected development time from 1.6 years to 0.7 years, a **49%** time and **43%** cost reduction
- Researched and drove a design document for content translations automation, including a pros & cons analysis of two main options
- Created and deployed **10 AWS CloudWatch** Metrics Widgets and **20** Alarms using an AWS **TypeScript** CDK to monitor features related to Prime membership Pause & Resume

Development Director, nwPlus UBC

May 2023 - Present

Technologies: Next.js, React, Firebase (Firestore, Storage, Analytics, Hosting)

- Leading a team of **6** developers to build **3** hackathon websites and maintain internal tools such as a QR Check-in App, a Hacker Application/Information Hub, a component library and a CMS
- Establishing coding standards and best practices to improve the quality and maintainability of the codebase for **3** new project initiatives using **Prettier** and **ESLint**

Hackathon Logistics Director, nwPlus UBC

April 2022 - April 2023

- Spearheaded the logistics for **HackCamp 2022**, Western Canada's largest beginner-friendly hackathon, attracting **~100** participants (**76%** first-time hackers), **26** project submissions, and offering **\$1500+** in prizes
- Managed and delegated tasks amongst **3** coordinators during weekly team meetings

PROJECTS

expawdition (Stormhacks 2023 - 1st Place)

[Devpost](#) | [Github](#)

Technologies: Next.js, React, Firebase (Firestore), Express, Node

- Developed an AI trip planner using the **GPT-3.5-turbo** AI model, **Google Places API**, and **Google Routes API** to generate optimized itineraries that consider user destinations, budgets, travel time, and personal preferences
- Designed a user-friendly interface using the **Chakra UI** library and custom **Figma** illustrations
- Collaborated with a team of **4**, including a Project Manager, a Designer, and 2 Developers, to transform a Figma prototype into a fully functional full-stack web application within **24** hours

liftz Workout Tracker

[Demo](#)

Technologies: Next.js, React, MongoDB, Express, Node

- Developed a comprehensive workout library, weight calculator, personal record tracker, and calendar using the **MERN** stack
- Utilized **Next.js** server-side rendering, **Chakra UI** for a modern user interface, and **Formik & Yup** for robust form validation
- Implemented user authentication and sessions with **Passport.js & Express Validator**

SKILLS

Languages: Java, C/C++, JavaScript, TypeScript, Python, SQL, HTML/CSS

Tools & Frameworks: React, Express, Node, MongoDB, Git, Next.js, Flask, Firebase, JUnit, Bash