

# Melvin Teo

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## EDUCATION

**Bachelor of Science (B.Sc.) in Computer Science** - 4.00 GPA  
The University of British Columbia, Vancouver, BC

Expected Grad: April 2025

## EXPERIENCE

### Software Engineer Intern, Amazon

May 2023 - August 2023

**Technologies:** Java, TypeScript, AWS

- Optimized the **Amazon Prime** membership cancellation flow for **millions** of customers from a 3-page to 2-page flow
- Updated configurations for **4** services serving the cancellation flow to ensure marketplace expansion compatibility
- Refactored codebase for **AWS CloudWatch** dashboards and alarms monitoring worldwide cancellation flow traffic
- Developed a Cookie Override feature to optimize QA A/B testing for customer experiences, saving **15 mins** per test

### Amazon Future Engineer Intern, Amazon

May 2022 - August 2022

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

- Implemented customer-facing features (e.g. emails, page widgets) related to Pausing & Resuming memberships for **millions** of worldwide Amazon Prime customers, helping to retain **tens of thousands** of customers annually
- Automated feature implementation across **14** countries using Bash scripts, reducing development time by **49%** and costs by **43%**
- Created and deployed **10 AWS CloudWatch** Metrics Widgets and **20** Alarms using an AWS **TypeScript** CDK to monitor Prime Membership Pause & Resume features

### 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** external websites and maintain **4** internal tools (e.g., QR Check-in App)
- Establishing industry standards to improve code quality using **Prettier**, **ESLint**, and **CI/CD** workflows
- Providing technical support to **8** non-technical subteams (e.g., Sponsorship, Design, etc.)
- Fostering a **design-first** and **doc-writing** team culture to enable knowledge transfer and quality assurance

### Hackathon Logistics Director, nwPlus UBC

April 2022 - April 2023

- Directed the successful execution of **HackCamp 2022**, Western Canada's largest beginner-friendly hackathon, with **~100** participants (**76%** first-time hackers), **26** project submissions, and a prize pool of over **\$1500**

## 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 **FERN** stack web application within 24 hours

### liftz Workout Tracker

[Demo](#)

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

- Developed a comprehensive workout tracker web app, including pages for a workout library, visual plate calculator, automatic PR (personal record) tracker, and session history calendar using the **MERN** stack and **MVC** pattern
- Leveraged **Next.js** server-side rendering to optimize for seamless user experiences, effectively eliminating the flickering effect during data updates and ensuring smooth and consistent page loads
- Utilized **Chakra UI** for a modern and visually appealing user interface, and **Formik & Yup** for robust form validation
- Implemented user authentication and user 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, AWS