Melvin Teo

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EDUCATION

Bachelor of Science (B.Sc.) in Computer Science - 4.20 GPA   Expected Grad: April 2025
The University of British Columbia, Vancouver, BC

EXPERIENCE

Software Engineer Intern, Amazon   May 2023 - August 2023
Technologies: Java, TypeScript, AWS
- Optimized the **Prime** membership cancellation flow for **millions** of customers from a 3-page to 2-page flow
- Ensured marketplace expansion compatibility for the main cancellation flow service and **4** downstream services
- Refactored codebase for **AWS CloudWatch** dashboards and alarms monitoring worldwide cancellation flow traffic
- Developed a Web Cookie Override feature to optimize **QA A/B testing**, saving **15 mins/test** for hundreds of tests

Amazon Future Engineer Intern, Amazon   May 2022 - August 2022
Technologies: TypeScript, AWS, FreeMarker, Bash
- Implemented customer-facing **Prime** membership pause & resume features (e.g. emails, page widgets) for **millions** of worldwide 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** dashboards and **20** alarms to monitor worldwide pause and resume traffic

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 accessible 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 four, including a Project Manager, a Designer, and two 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 a workout library, a visual plate calculator, an automatic PR (personal record) tracker, and a session history calendar using the **MERN** stack and **MVC** pattern
- Leveraged **Next.js** server-side rendering to optimize for seamless user experiences, 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