Melvin Teo

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EDUCATION

Bachelor of Science (B.Sc.) in Computer Science - GPA: 3.3   Expected Grad: May 2025
The University of British Columbia, Vancouver, BC
- **Relevant Coursework:** Software Construction, Computer Systems, Algorithms and Data Structures

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 **Prime** membership pause & resume features to retain **tens of thousands** of customers annually
- Reduced development time by **49%** and costs by **43%** by automating feature implementation across **14** countries using Bash scripts
- Deployed **10 AWS CloudWatch** dashboards and **20** alarms to monitor worldwide pause and resume traffic

VOLUNTEER EXPERIENCE

Development Director, nwPlus UBC   May 2023 - Present
Technologies: Next.js, React, Firebase
- 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** and **CI/CD** workflows
- Providing technical support to **8** non-technical subteams

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**
- Managed a logistics team of **4** by delegating responsibilities across **6 months** of planning

PROJECTS

Stormhacks (2023)   [Devpost](#) | [Github](#)
Technologies: Next.js, React, Firebase, Express, Node
- Secured **1st place** for "Expawdition", an innovative solution tackling trip planning using the **GPT-3.5-turbo** AI model, **Google Places API**, and **Google Routes API** to generate optimized itineraries based on user preferences
- Collaborated with a diverse team of 4 to build a functional **FERN** stack web application within **24 hours**

liftz   [Demo](#)
Technologies: Next.js, React, MongoDB, Express, Node
- Developed a comprehensive workout tracker web app, including a workout library, a visual plate calculator, a personal record (PR) tracker, and a session history calendar using the **MERN** stack and **MVC** pattern

phreview   [Demo](#)
Technologies: Chrome Manifest V3, HTML, CSS, JavaScript
- Built a review pop-up quiz **Chrome Extension** to practice foreign language phrases
- Wrote a phrase-translation pair selection algorithm that favours pairs with lesser proficiency ratings to use in review pop-up quizzes

SKILLS

Languages: Java, JavaScript, TypeScript, Python, HTML/CSS, SQL (Prior Experience), C/C++ (Prior Experience)
Tools & Frameworks: React, Express, Node, MongoDB, Git, Next.js, Firebase, JUnit, Bash, AWS