

Melvin Teo

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EDUCATION

Bachelor of Science (B.Sc.) in Computer Science

Expected Grad: May 2025

The University of British Columbia, Vancouver, BC

- **Relevant Coursework:** Algorithms and Data Structures, Relational Databases, Software Engineering

SKILLS

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

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

WORK EXPERIENCE

Software Development Engineer Intern, Amazon

May 2023 - August 2023

- Orchestrated a 33% optimization of the Prime membership cancellation process for 3 million customers
- Enhanced observability for global cancellation flow traffic by refactoring CloudWatch dashboards and alarms using the AWS TypeScript SDK
- Developed a Web Cookie Override feature in Java to optimize QA A/B testing, saving 15 mins/test for hundreds of QA-automated and manual development entry tests

Amazon Future Engineer Intern, Amazon

May 2022 - August 2022

- Implemented Prime membership pause & resume features to retain tens of thousands of customers annually
- Reduced costs by 43% and development time by 49% by automating feature implementation across 14 countries via Bash scripts
- Conducted thorough Manual Development Entry Testing using internal customer mocking tools to evaluate and validate diverse customer experiences

VOLUNTEER EXPERIENCE

Director of Software Development, nwPlus UBC

May 2023 - Present

- Leading a team of 6 developers to build and maintain 8 React/Firebase web applications for up to 1700 users
- Introducing Agile development processes while enforcing stringent code quality and documentation standards
- Providing technical support, strategic consultation, and project estimates to 8 non-technical subteams

Hackathon Logistics Director, nwPlus UBC

April 2022 - April 2023

- Orchestrated 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 \$1500+

HACKATHONS & PERSONAL PROJECTS

Expawdition (AI Trip Planner)

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

- Secured 1st place at Stormhacks 2023 with an innovative solution tackling trip planning using the ChatGPT AI model, Google Places API, and Google Routes API to generate optimized trip itineraries
- Built the Express/Node backend API endpoints and connected it to the React frontend

liftz (Personal Workout Tracker)

[Website](#)

- Developed a comprehensive workout tracker web app, including a workout library, a visual plate calculator, a personal record tracker, and a session history calendar
- Developed a responsive React frontend with create, read, update and delete functionality
- Implemented a REST API backend using an Express/Node server connected to a MongoDB NoSQL database

phreview (Pop-up Quiz Chrome Extension)

[Website](#)

- Built a review pop-up quiz Chrome Extension using Manifest V3 to practice foreign language phrases
- Developed a minimalistic user interface using HTML, CSS, and JavaScript
- Wrote a phrase-translation pair selection algorithm that favours pairs with lesser proficiency ratings to use in review pop-up quizzes