Melvin Teo

✉ **mthteo@gmail.com** | ☎ **(778) 927-0198** | **in/melvinhteo** | ⊕ **melvinteo.com**

EDUCATION

Bachelor of Science (B.Sc.) in Computer Science   Graduating May 2026
University of British Columbia, Vancouver, BC
- **Relevant Coursework:** Data Structures & Algorithms, Networking, Operating Systems, Relational Databases

SKILLS

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

WORK EXPERIENCE

Software Development Engineer Intern, Amazon   May 2024 - August 2024
- Reduced resource creation time by 98% for a web service managing millions of Prime customer states, significantly improving system efficiency and scalability
- Eliminated manual engineering efforts by building a dynamically-rendered React app directly from a DynamoDB schema, streamlining front-end development
- Ensured project design excellence by authoring a comprehensive design document covering the front-end, API layer, database, and back-end, presenting to stakeholders, and achieving cross-team alignment
- Maintained high code quality standards by applying SOLID design principles and proven design patterns in Java, resulting in increased maintainability and reduced technical debt across all development layers

Software Development Engineer Intern, Amazon   May 2023 - August 2023
- Streamlined the Prime membership cancellation flow, reducing processing time by 33% for millions of users
- Optimized configurations for 4 Java microservices to enable seamless global deployment and enhance scalability, ensuring strong performance across markets
- Enhanced observability of global cancellation traffic by refactoring 10 CloudWatch dashboards and alarms using the TypeScript CDK, enabling more accurate business statistics monitoring and faster issue detection
- Simplified QA work in A/B testing by building a cookie override developer tool in Java, significantly reducing testing complexity and improved overall test efficiency

Future Engineer Intern, Amazon   May 2022 - August 2022
- Boosted annual Prime customer retention by developing targeted retention emails and personalized widgets
- Cut costs by 43% and reduced development time by 49% by automating feature deployment across 14 countries through scalable, extensible Bash scripts
- Enhanced product quality by conducting manual testing and data validation through customer simulations

LEADERSHIP

Co-President, Software Development Director, Logistics Director, nwPlus UBC   May 2022 - Present
- Overseeing club operations and facilitating communication among 55 members and 10 cross-functional teams
- Led a team of 6 developers in an agile environment to build and maintain 8 React apps using TypeScript, JavaScript, and GitHub Actions, optimizing hackathon logistics for 1,700 users across 3 events
- Spearheaded the largest beginner-friendly hackathon in Western Canada, attracting over 100 participants

PROJECTS & HACKATHONS

Expawdition (AI Trip Planner)   **Github**
- Won 1st place out of 27 teams in a 24-hour hackathon hosted by Simon Fraser University
- Developed an AI-powered trip-planning app using TypeScript, React, Express, Node.js, and Firebase, delivering personalized itineraries that enhance user travel experiences and drive customer satisfaction

liftz (Personal Workout Tracker)   **Website**
- Built a workout tracker app with a session history calendar, visual plate calculator, and progress tracker
- Developed and deployed a RESTful API using Node.js, Express, and MongoDB, with a React frontend integration