# Johnathan Tam

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## EDUCATION

**Bachelor of Computer Science (Dean's Honour List)**                    Sep 2021 - May 2024
University of British Columbia, Vancouver, BC

**Bachelor of Science in Biology (Dean's Honour List)**                    Sep 2012 – Nov 2017
University of British Columbia, Vancouver, BC

## EXPERIENCE

**Software Engineer Intern, Diligent Corporation**                    Sep 2023 - Jan 2024
**Technologies**: **TypeScript, AWS - S3, CI/CD CodePipeline, CloudWatch, Lambda, DynamoDB**
- Developed a CloudWatch-based monitoring system, triggering alarm notifications directly to Slack and SMS, enabling real-time response to critical events and reduced manual monitoring by 50%.
- Improved data verification processes to prevent duplication by developing a Lambda function that stores checksums for data and metadata in DynamoDB, with alerts to an SQS queue for inconsistencies.
- Engineered a solution for authorizing user access to an upload API, leveraging user authentication system, followed by creation of an encrypted token stored in DynamoDB for security management.

**Junior Software Developer Intern, Delta Controls**                    May 2023 – Aug 2023
**Technologies**: **Python, Django, Pytest, PostgreSQL, PHP, Zend, Docker, React, Jenkins**
- Enhanced web platform scalability by 40% through transitioning key features from PHP Zend framework to Python Django framework.
- Designed a login API, facilitating secure transfer of cookies, IDs, and access tokens, while integrating comprehensive error handling for optimal system performance and reliability.
- Constructed advanced backend APIs for optimized data retrieval and updates, including creating HTTP responses to ensure clear communication of successful or unsuccessful data transactions.

**Full Stack Software Developer Intern, Convergence Concepts**                    Sep 2022 – Dec 2022
**Technologies: React, TypeScript, GraphQL, Mocha, JavaScript, PostgreSQL, MongoDB, jQuery**
- Improved response time by 60% of an affiliate network web application (Fintel Connect) by developing efficient SQL queries and creating relational databases.
- Spearheaded the creation of dynamic, feature-rich web pages for Fintel Connect, shaping Figma designs from the UI/UX team into a responsive online marketing platform.
- Revitalized an outdated React Native application by upgrading it to the latest SDK, removing deprecated libraries, modernizing the codebase, and ensuring compatibility with iOS and Android platforms.

## PROJECTS

**Hearo - SFU StormHacks Top 5 Finalist + Most Creative Use of API**
**Technologies**: **React, Node, REST API, JavaSCript, CSS, HTML**
- Selected as a top 5 finalist and won the most creative use of API award out of 400 participants by developing an app that transcribed speech from live phone calls into text on screen.

**Strata Resident Portal**
**Technologies: React, TypeScript, Express, PostgreSQL, JWT, REST APIs, Styled-components**
- Showcased and designed a full-stack web application, offering residents a multi-faceted platform with secure login functionality that enables users to schedule bookings for a shared amenities facility, view strata announcements, and submit requests to the building manager.

## SKILLS

**Languages**: Python, TypeScript, Java, PHP, C/C++, JavaScript, HTML/CSS
**Tools & Frameworks:** AWS, React, Express, Redux, MongoDB, Auth0, JWT, Junit, Pytest, Mocha, GraphQL, PostgreSQL, MySQL, Node, Django, PHP, Zend, React Native, Apollo, jQuery, Docker, Git, Jira, Confluence