

JOHNATHAN TAM

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Education

Bachelor of Computer Science (Dean's Honor List)

University of British Columbia, Vancouver, BC

Sep 2021 – May 2024

Bachelor of Science in Biology (Dean's Honor List)

University of British Columbia, Vancouver, BC

Sep 2012 – Nov 2017

Work Experience

Software Engineer, GMO Financial Holdings Inc

June 2024 – Sep 2025

Technologies: Kotlin, Java, Spring, JUnit, TypeScript, React, Gradle, MySQL, Docker, Jenkins

- Expanded multi-chain functionality of enterprise wallet by 15% through implementing support for Tezos, Astar, and Sui, enabling secure address management, fund transfers, and chain-specific features across both frontend and backend.
- Designed and delivered a robust request/review workflow for cryptocurrency address modifications, adding validation to block duplicate requests, prevent conflicts, and safeguard pending transactions.
- Engineered a configurable per-currency fee validation system that eliminated high-fee transaction errors by 100%, blocking transfers above configured thresholds across all key transfer flow systems (confirm, request details, RBF).

Software Engineer Intern, Diligent Corporation

Sep 2023 – Jan 2024

Technologies: TypeScript, Amazon Web Services (AWS) – S3, CI/CD CodePipeline, CloudWatch, DynamoDB, Lambda

- Built a CloudWatch-based monitoring system, triggering alarm notifications directly to Slack and SMS, therefore enabling real-time responses to critical events and reduced manual monitoring by 50%.
- Revitalized data verification processes to prevent duplication by developing a Lambda function that calculates and stores checksums for data and metadata in DynamoDB, with alerts to an SQS queue for any 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 enhanced 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 crafting custom 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, Redux, TypeScript, GraphQL, Mocha, React Native, PostgreSQL, MongoDB, JavaScript, jQuery

- Improved response time by 60% of an affiliate network web application (Fintel Connect) by developing efficient SQL queries and creating relational database.
- 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 both iOS and Android platforms.

Technical Skills

Languages: Python, Kotlin, Java, TypeScript, JavaScript, PHP, HTML/CSS

Frameworks: Spring, React, Node, Express, Redux, React Native, GraphQL, Apollo, Django, jQuery, Mocha, Pytest

Tools: Gradle, Docker, Jenkins, Git, Jira, Confluence, AWS, Auth0