

Tam Nguyen

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EDUCATION

University of Waterloo

Bachelor of Computer Science, Honours

Sep 2020 – Apr 2024

GPA: 3.8/4.0 (88%)

EXPERIENCE

Full Stack Developer Intern

Sep 2023 – Dec 2023

SS&C Technologies

Toronto, ON

- Led a MediaWiki project by constructing **5+ GitHub Actions** workflows to support blue-green deployment, reducing code duplication by **60%**, and improved connection reliability between **NGINX** and **AWS S3**
- Built REST API with **Java Spring Boot** and integrated API calls into the core **Angular** application to provide user manual spanning **40+** pages and scenarios
- Managed **PostgreSQL** database migrations and composed comprehensive guidance materials to transfer knowledge on the operations of the MediaWiki project

Full Stack Developer Intern

May 2023 – Aug 2023

Milk Moovement

Halifax, NS

- Accelerated onboarding for **2 new clients** by building **15+ React** reusable forms and components, while streamlining region-specific configurations
- Supported microservice architecture migration by developing **serverless** endpoints with **AWS Lambda** and **Kinesis** for efficient data filtering and transformation
- Built internal tools to synchronize data between **MongoDB** and **DynamoDB**, enhancing operational efficiency

Back End Software Engineer Intern

Sep 2022 – Dec 2022

Index Exchange

Toronto, ON

- Developed the first ever automated End-to-End testing system in the team using **Go**, **Cucumber**, **Kubernetes**, and **Docker** for **7+ microservices**, reducing service downtime and facilitating software debugging
- Enhanced **GitLab CI/CD** pipelines for testing, software versioning, deployment orchestration, **Docker** image publishing, **Jira** ticket validation, **Swagger** documentation generation, and commit linting
- Boosted code coverage metrics to **over 80%** and optimized API endpoints by refactoring code and crafting **50+** unit tests, integration tests, and End-to-End tests

Front End Developer Intern

Jan 2022 – Apr 2022

SS&C Technologies

Toronto, ON

- Developed **20+ Vue.js** components adhering to **AODA standards** with a focus on responsiveness and accessibility
- Implemented stateful routing features to optimize navigation, tailoring unique flows for user signup scenarios

Front End Developer Intern

May 2021 – Aug 2021

SS&C Technologies

Toronto, ON

- Contributed to the transformation of a legacy product into a modern **Vue.js** web application
- Built **10+** pages and integrated API calls to display and update user financial investments and retirement plans

PROJECTS

TechGo | Go, Docker

github.com/tamnguyen820/techgo

- Built a terminal application in **Go** to aggregate and browse tech news articles from multiple RSS feeds
- Applied software design patterns, object-oriented concepts, and concurrency primitives to optimize performance

VChess | Vue.js, WebSocket, Web Workers, Node.js, Express.js, MongoDB, Python

v-chess.netlify.app

- Developed a **Vue.js** web platform enabling real-time online chess playing, puzzle training, and engine analysis

SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, Go, Python, Java, Kotlin, C, C++, Dart

Technologies: Vue.js, React, Angular, Node.js, Express.js, Tailwind CSS, Bootstrap, Cucumber, Jest, Flutter

Tools: Git, AWS, MongoDB, PostgreSQL, GitHub Actions, GitLab CI/CD, Postman, Docker, Swagger, Argo CD, Grafana