Tam Nguyen

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EDUCATION

University of Waterloo   Sep 2020 – Apr 2024

Bachelor of Computer Science, Dean's Honours Distinction   GPA: 3.8/4.0 (88%)

EXPERIENCE

Full Stack Developer Intern – SS&C Technologies   Toronto, Sep 2023 – Dec 2023
- Led a knowledge base project by writing complex GitHub Actions workflows to support blue-green deployment, **slashing code duplication by 60%**, and improving connection reliability between NGINX and AWS S3
- Built REST API with Java Spring Boot and integrated API calls into the core Angular application with Redux 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 knowledge base system

Full Stack Developer Intern – Milk Moovement   Halifax, May 2023 – Aug 2023
- Accelerated **onboarding for 2 new US clients** by building intuitive web pages in React with Redux. Engineered flexible region-based app configurations to **simplify deployment and future client onboarding**
- Supported **microservice architecture migration** by developing API endpoints for data filtering and transformation leveraging AWS Lambda, Kinesis, Serverless computing
- Implemented internal tools utilizing **batch processing and pagination techniques** to synchronize data between MongoDB and DynamoDB, enhancing operational efficiency

Software Engineer Co-op – Index Exchange   Toronto, Sep 2022 – Dec 2022
- Developed the **first ever automated End-to-End testing system in the team** for many microservices using Go, Cucumber, Kubernetes, and Docker, reducing service downtime and facilitating software debugging
- Upgraded 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

Software Developer Intern – SS&C Technologies   Toronto, Jan 2022 – Apr 2022
- Developed 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

Software Developer Intern – SS&C Technologies   Toronto, May 2021 – Aug 2021
- 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, Socket.io, Node.js, Express.js, MongoDB, Python   *v-chess.netlify.app*
- Developed a Vue.js web platform for online chess playing, puzzle training, and engine analysis
- Leveraged the WebSocket protocol to enable **real-time match-making and provide a multiplayer experience**

SKILLS

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

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

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