

Skills

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

Libraries & Frameworks: Node.js, React, Angular, Vue.js, Express, Rails

Tools & Technologies: Docker, SQL, NoSQL, Elasticsearch, Git, Linux, Android, Bash, Vim

Experience

More at linkedin.com/jr-maingat

Coursera

Software Engineer

Toronto, ON

June 2021 – Present

Cisco Meraki

Software Engineer Intern

San Francisco, CA (Remote)

September 2020 – December 2020

- Developed back-end network health Rails API capable of scaling to networks with 10,000+ devices
- Refactored front-end device health React/Redux widgets to be API-first for open consumer use
- Prototyped, designed, and demoed cloud-based network configuration dashboard for admins
- **Technologies used:** Ruby, Rails, React, Redux, Jest, RSpec

RBC Royal Bank

Software Developer Co-op

Toronto, ON

January 2019 – August 2019

- Developed metrics aggregation querying language with Node.js and Express for graph-based search engine built on Elasticsearch, saving analysts hours per week by automating report generation
- Designed and implemented asynchronous algorithm for graph traversal and document retrieval in Express API, reducing space complexity from $O(n)$ to $O(1)$
- Engineered historical data pipeline for Elasticsearch using C#, enabling trend analytics and monitoring
- **Technologies used:** JavaScript, .NET C#, Node.js, Express, Elasticsearch, Angular, TypeScript, RxJS

Ontario Treasury Board Secretariat

Software Developer Co-op

Toronto, ON

January 2018 – April 2018

- Developed Go API for government-wide social network, decreasing page load times by up to 98%
- Reduced build times by 50% by minifying Docker images, leading to a faster Agile/DevOps workflow
- Scripted static code analysis in continuous integration with Bash, identifying 20+ code quality issues
- **Technologies used:** Go, Docker, Bash, Vue.js, JavaScript, MySQL, Jira, Confluence, BitBucket Pipelines

Projects

More at github.com/tagiam

Turn: Hacktober 'n' Slash →

- Led development of open source C++ game with a Hacktoberfest community of 50+ contributors
- Reviewed 100+ pull requests for new features and bug fixes, prioritizing clean object-oriented code

Vim for Visual Studio Code →

- Built 5 features for open source Vim emulator in TypeScript with 1.7+ million users, resolving 10 issues
- Developed and tested cross-platform shell execution Vim command, improving developer productivity

KVRaft →

- Built distributed key-value store in Go, resilient to up to 50% cluster failure and network partitions
- Implemented scalable and containerized Raft consensus in distributed system using Docker and RPCs

Education

University of Toronto

Honours Bachelor of Science in Computer Science, Co-op

September 2016 – June 2021

- Awarded U of T Scholars Program Award and Renewable Entrance Scholarship