Tri Cao (SWE III - L4)

minhtricao1996@gmail.com | (613) 851-6363 | C302-275 Columbia St W, Waterloo, ON | linkedin.com/in/tri-cao-64723313a

Skills

Languages: Java, Python, Kotlin, TypeScript, JavaScript, Golang, HTML, CSS, SQL, bash

Technologies: Google Cloud Platform, Spanner, gRPC, Protocol Buffer, Terraform, Guice, Spring, Bazel, React,

Node.js

Technical fields: Back-End Development, Distributed System, Data Engineering, Front-End Development

Experience

Software Developer | Firebase Backend Google 04-2023 - Currer

04-2023 - Current (L4 since 11-2022)

- Led the development of a new server stack to support Firebase app configurations fetching requests, launching
 a basic server in PROD for an Early Access Program supporting <10 customers by December 2023, involving
 extensive research, infrastructure design documentation, and implementation of key components such as load
 balancing, caching, and database replications.
- Enhanced accessibility for Firebase email alerts (30 variations) by achieving full dark mode support, optimizing screen reader compatibility, and streamlining developer workflow, resulting in reduced KSLO and improved user experience
- Participated in the migration of third-party channel alert delivery systems, including Jira and Slack, to a centralized backend server. Contributed to the development of a CRON job for data migration, designed new RPC APIs, and implemented logic for interaction with external APIs.
- Participating in an on-call rotation

Software/Data engineer | Firebase Metrics

Google

04-2021 - 04-2023

- Engineered and maintained data pipeline systems to fuel Firebase usage and revenue data analysis, enabling all
 of Firebase and cross-PA partners to make data-driven decisions.
- Redesigned Firebase revenue data pipelines with BigQuery SQL and internal data warehouse system which
 allows parallel ad-hoc revenue studies with flexible timelines and data sources, while automating monthly revenue
 reporting process to save 90% the legacy manual processing time.
- Designed and released a Python automated code review bot for data pipeline configurations and SQL queries,
 permanently enforced good practices and rules for the cross-team shared code base.

Software Engineering Intern | Recommendations AI

Google

05-2020 - 08-2020

- Built and established complex configurations for a new **Java** multi-component service.
- Designed and exposed new RPC APIs to monitor long-running operations and register for front-end notifications.

Software Engineering Intern | Firebase CLI

Google

05-2019 - 08-2019

Designed, implemented and fully tested Firebase CLI's new project management capabilities. Utilize asynchronous
 Typescript programming in NodeJS environment.

Software Developer Intern | Cognos Analytics

IBM

01-2019 - 04-2019

Developed new, highly reusable React components to Cognos Anlatylics exploration graph feature, styled with
 Sass. The component allows for subtle configurations to increase its adaptability to different use cases.

Engineering Practicum Intern | Firebase Backend

Google

05-2018 - 08-2018

- Investigated the strongly consistent characteristics of Google **Spanner** database and **Java** server programming.
- Re-implemented the Firebase app creation workflow which enhances immunity from interruption.

Dean Summer Research Internship

Carleton University

05-2017 - 08-2017

 Created a multi-layered tree data structure to efficiently identify all distinct colors within a 2D rectangle on a ground surface

Education

Carleton University

Ottawa, Ontario, Canada

Bachelor of Computer Science, Co-op Program

Jan 2016 - Feb 2021

CGPA: 11.86/12 (**A**+). On **Dean's Honour List** since 2016.