

THARSEKEN NAVAJEEVAYOKAN

🌐 tharseken.ca — ✉ tnavajee@uwaterloo.ca — ☎ 416-910-0494 — in tharseken — 🌐 tharseken

SUMMARY

- **Programming Languages:** Python, JavaScript, Java, C, C++, TypeScript
- **Frameworks and Technologies:** AWS, Django, React, Redux, Docker, Nginx, MongoDB, Git, Firebase

EDUCATION

University of Waterloo

Sept, 2017 - Apr, 2022

Candidate for Honours Bachelor of Applied Science in Computer Engineering

GPA: 3.7 / 4

Relevant Courses: Algorithms and Data Structures, Fundamentals of Programming, Systems Programming and Concurrency, Numerical Methods, Embedded Microprocessor Systems

EXPERIENCE

Software Development Engineer Intern

May, 2021 - Present

Amazon

- Developed Lambda API to allow employee headcount modification for Amazon fulfillment centre voluntary shift opportunities allowing machine learning models to more precisely estimate and update labor needs
- Configured custom token-bucket algorithm rate limiting in AWS API Gateway to throttle gateway requests
- Refactored Cloudwatch dashboards and metric collection to improve composite service alarm creation

Software Engineer Intern

Sep, 2020 - Dec, 2020

Intuit

- Developed and implemented scalable GraphQL APIs to query and resolve TurboTax customer reviews
- Introduced webpack in React build process to reduce bundle size by 25% and improve deployment times
- Migrated TypeScript React components to Javascript, creating reusable web components for the TurboTax Canada marketing website

Data Engineering Intern

Jan, 2020 - Apr, 2020

Intuit

- Introduced BI tool using NetworkX and Matplotlib to visualize content network and cyclic dependencies
- Developed API service to generate tax summaries using financial data, used by Intuit tax specialists
- Integrated Python data migration pipeline in content publishing environments, reducing authoring times

Software Engineer Intern

May, 2019 - Aug 2019

TimeSaved

- Refactored server database logic to use data aggregation pipelines, improving data processing by 11%
- Developed a real-time group messaging platform across web and mobile clients using socket libraries
- Integrated infrastructure to increase user data collection by 37%, enabling Google Analytics data pipelining

PROJECTS

WatchTyger

Python, JavaScript | Django, React, AWS (EC2, RDS, SES), Nginx, Docker

- A web platform that allows users to define house search criteria (city, price, storeys, etc.) and regularly emails them any property listings that match
- Utilizes scheduled cron job and Amazon SES to obtain and email new property listings to users nightly
- Developed using Django and React frameworks and hosted using AWS, Nginx, and Docker

Health Canada Product Monographs

JavaScript | MongoDB, Express, React, Node.js, AWS, Docker

- A MERN stack web platform deployed using Docker and AWS EC2 that allows regulatory firms to create, edit, and manage drug submissions for Health Canada
- Developed textual auto-complete search of existing XML submissions using AWS Elasticsearch
- Implemented a content management system with filtering, revisioning, and document version control