THARSEKEN NAVAJEEVAYOKAN

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Summary

- · Programming Languages: Python, JavaScript, Java, C++, TypeScript, C
- · Technologies: AWS, Django, React, Redux, Docker, Nginx, MongoDB, Git, SQL, Google Firebase, GCP

EDUCATION

University of Waterloo

Sept, 2017 - Apr, 2022

Candidate for Honours Bachelor of Applied Science in Computer Engineering

GPA: 3.7 / 4.0

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

EXPERIENCE

Software Development Engineer Intern

May, 2021 - Aug, 2021

Amazon

- · Designed and developed AWS Lambda APIs that enabled external teams to modify fulfillment centre employee shift details, allowing for more dynamic and accurate labor plan estimations
- · Configured custom token-bucket algorithm rate limiting in AWS API Gateway to throttle gateway requests
- · Refactored Cloudwatch dashboard configuration and metric collection to improve composite alarm creation

Software Engineer Intern

Sept, 2020 - Dec, 2020

Intuit

- · Developed and implemented scalable GraphQL APIs to query and resolve TurboTax customer reviews
- \cdot 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

Software Engineer 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

Time Saved

- · 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 | React, Django, AWS (EC2, RDS, SES), Nginx, Docker

- · A web platform that allows users to define house search criteria (city, price, property type, 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

Product Monographs

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

- · A web platform deployed using Docker and AWS EC2 that allows regulatory firms to create, edit, and manage pharmaceutical 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