Daniel Lee

danielbl.com | d274lee@uwaterloo.ca | (289) 489-8870

SKILLS

LANGUAGES	Python • Java • C/C++ • Go • JavaScript • Shell
TECHNOLOGIES	Node • Express • Django • Flask • Kafka • PostgreSQL • MongoDB • React
TOOLS	AWS • Docker • OpenShift • Jira • Confluence • Git • GitLab

WORK EXPERIENCE

IBM | BACK END DEVELOPER INTERN   Ottawa, ON | Sep 2021 – Dec 2021

- Built registration to microservices by implementing a common Java library to serve RestAPI endpoints
- Developed the Java library utilizing Google Gson and Apache including HttpComponents and Log4j
- Revamped setup procedure to Kafka to read, generate and update the necessary configuration files
- Closed a 3 month old logging defect by reproducing failure and generating and investigating logs

LUMENIX | SOFTWARE DEVELOPER INTERN   Toronto, ON | Jan 2021 – Apr 2021

- Delivered new full-stack features end-to-end using Django, JavaScript and AWS to production
- Oversaw numerous release candidates by writing test cases for every task in the scrum sprints
- Developed cron job to store event data from API Gateway to DynamoDB by writing Lambda functions
- Created real-time Chart.js plots by streamlining event items from DynamoDB using jQuery and Ajax

LUMENIX | SOFTWARE ENGINEER INTERN   Toronto, ON | Jul 2020 – Aug 2020

- Connected devices to AWS IoT Core by implementing Python scripts to route pub/sub messaging
- Architected new DynamoDB schema on AWS leading to more flexible queries and better performance

SELECTED PROJECTS

POKÉMON ADVENTURE

- A web app inspired by the Pokémon video game where users battle and catch Pokémon to build a team
- Built using React, Node/Express and PokéAPI utilizing MongoDB as a cache to reduce API calls

LETS CHAT

- A chat room web app allowing users to communicate one-on-one while taking in different languages
- Built using React and Node/Express utilizing web sockets, GCP Translation API and MongoDB

SPELL CHECKER

- A GUI app which gives auto complete suggestions in real time and detects misspelled words
- Built using Java and Swing implementing a prefix tree (trie) to generate auto complete suggestions

NEWS ANALYTICS

- A Python/Flask web app which scrapes and performs text analysis on news articles given a URL
- Utilized PostgreSQL, Newspaper API and NLTK for sentiment analysis and text summarization

EDUCATION

UNIVERSITY OF WATERLOO | BASc. MECHATRONICS ENGINEERING   2019 - 2024

- Relevant Coursework: Digital Computation • Algorithms and Data Structures • Introduction to Computer Structures & Real-Time Systems