Daniel Lee

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SKILLS

Languages	Python • Java • JavaScript • C++ • Go • Shell • HTML/CSS
Technologies	Node • Express • Django • Flask • Kafka • PostgreSQL • MongoDB • React
Tools	AWS • Docker • OpenShift • Jira • Confluence • Git • GitLab • Linux

EXPERIENCE

IBM | Back End Developer Intern   Ottawa, ON | Sept. 2021 – Dec. 2021
- Wrote a common HTTP client Java library to serve REST API endpoints connecting to microservices
- Developed the library utilizing Google Gson and Apache including HttpComponents and Log4j
- Revamped Kafka setup to read and update configuration files leading to reduced file generation time
- Closed a 3 month old logging defect by reproducing failures 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
- Developed cron job using Lambda functions to store event data from API Gateway to DynamoDB
- Created real-time data analytics by streamlining event items from DynamoDB using jQuery and Ajax
- Oversaw numerous release candidates by writing test cases for every task in the scrum sprints

LUMENIX | Software Engineer Intern   Toronto, ON | Jul. 2020 – Aug. 2020
- Architected DynamoDB utilizing a global secondary index improving query flexibility and performance
- Connected devices to AWS IoT Core by writing Python scripts to route pub/sub messages over MQTT

PROJECTS

POKÉMON ADVENTURE   pokemon-adventure1.herokuapp.com
- A Pokémon video game web app 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   lets-chat-project.herokuapp.com
- A chat room web app allowing users to communicate one-on-one while talking 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 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 | B.A.Sc. Mechatronics Engineering   Sept. 2019 - Apr. 2024
Relevant Coursework: Digital Computation • Algorithms and Data Structures • Introduction to Computer
Structures & Real-Time Systems