

Daniel Lee

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SKILLS

LANGUAGES	Python • Java • JavaScript • C++ • Go • Shell • HTML/CSS
TECHNOLOGIES	Django • Flask • Node.js • PostgreSQL • MongoDB • Kafka • 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 library in Java to serve REST API endpoints connecting to microservices
- Developed the library utilizing Google Gson and Apache including HttpComponents and Log4j
- Migrated Apache Kafka configuration procedure from a shell script to Java to run internally on team project to reduce configuration time
- Resolved a logging defect that had been neglected for 3 months by reproducing failure and generating and investigating logs on CentOS

LUMENIX | SOFTWARE DEVELOPER INTERN

Toronto, ON | Jan. 2021 – Apr. 2021

- Developed new full-stack features to production for an IoT analytics dashboard displaying administrative data for over 50,000 patients using Django, JavaScript and AWS
- Designed and built a fully automated data pipeline on AWS using Python for real-time event monitoring
- Built the pipeline by writing a cron job using AWS Lambda to store incoming events from API Gateway and configured DynamoDB Streams and Lambda Triggers to react to table entries

LUMENIX | SOFTWARE ENGINEER INTERN

Toronto, ON | Jul. 2020 – Aug. 2020

- Architected DynamoDB utilizing a global secondary index to improve 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.js, Express.js and PokéAPI utilizing MongoDB as a cache to reduce API calls

LETS CHAT

lets-chat-project.herokuapp.com

- A chat room app where users can have one-on-one conversations while talking in different languages
- Built using React, Node.js and Express.js utilizing web sockets, Google Cloud Platform 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 web app built using Flask 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, CO-OP

Sept. 2019 - Apr. 2024

President's Scholarship of Distinction | Relevant Coursework: Digital Computation, Algorithms and Data Structures, Introduction to Computer Structures & Real-Time Systems