Daniel Lee

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EDUCATION

University of Waterloo   Waterloo, ON, Canada
Bachelor of Applied Science in Mechatronics Engineering, Co-op   *September 2019 – April 2024*

TECHNICAL SKILLS

Languages: Java, Go, Python, JavaScript, C, Shell Script
Tools/Frameworks: Django, Flask, Node.js, React, PostgreSQL, MongoDB, AWS
Interests: Backend and Infrastructure, Distributed Systems, Microservices, Big Data

EXPERIENCE

Pepperdata   Santa Clara, CA, USA
Incoming Backend Developer Intern   *May 2022 – August 2022*
- Working with Big Data and Large-Scale Distributed Systems using **Hadoop** and **Kubernetes**

IBM   Ottawa, ON, Canada
Backend Developer Intern   *September 2021 – December 2021*
- Wrote a common HTTP client library in **Java** to serve endpoints defined in **Swagger** to register microservices
- Developed the library utilizing **Log4j**, **Apache HttpComponents** and **Google Gson** to consume JSON
- Migrated **Kafka** configuration procedure to run internally on team project and created a template of expected values to help **reduce configuration time**
- Resolved a logging defect that had been neglected for **3 months** by reproducing failures and logs on **CentOS**

Lumenix   Toronto, ON, Canada
Software Developer Intern   *January 2021 – April 2021*
- Developed full-stack features for an analytics dashboard displaying **over +50,000** administrative data using **Django**, **JavaScript** and **jQuery** to production
- Architected a data streaming pipeline on **Amazon Web Services** using **Python** for real-time event monitoring
- Built the pipeline by routing endpoint to a **Lambda** function to handle storing events to **DynamoDB** and configured triggers to route events to web backend

Lumenix   Toronto, ON, Canada
Software Engineer Intern   *July 2020 – August 2020*
- Architected **DynamoDB** utilizing a global secondary index to **improve query** flexibility and performance
- Connected devices to the cloud using AWS IoT Core by writing **Python** scripts to route pub/sub messages

PROJECTS

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**, **Node.js** and **Express.js** utilizing **web sockets**, **GCP Translation API** and **MongoDB**

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

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

Spell Checker
- A graphical user interface 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