Daniel Lee

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EXPERIENCE

Pepperdata
Santa Clara, CA, USA

Backend Developer Intern, Platform
May 2022 - August 2022

- Reduced average cloud installation time **by over 94%** by designing and implementing an internal versioning application in **Java**, **Spark Web Framework** for configuration files stored on **AWS S3**
- Increased efficiency of establishing **proof of concept (POC)** by leading the research and development of a metrics ingestion tool to collect and ingest **100,000+ data points per day** of historical cluster and node metrics
- Built the tool in **Java**, **Maven** deployed to **AWS Lambda**, leading to a **7 day** reduction in establishment time

IBM
Ottawa, ON, Canada

Backend Developer Intern
September 2021 - December 2021

- Implemented an HTTP client library used by engineering team for certificate signing requests to connect to microservices written in **Java** using **Apache HttpComponents**
- Rewrote shell scripts in **Java** to generate **Apache Kafka** configurations to run internally on team project
- Resolved a logging defect neglected for **over 3 months** by reproducing failures and logs on **CentOS**

Lumenix
Toronto, ON, Canada

Software Developer Intern
January 2021 - April 2021

- Launched a **minimum viable product (MVP)** for **50,000+** patients by developing an analytics dashboard displaying administrative data with **Python**, **Django**, **jQuery** and **Chart.js**
- Led the design and implementation of a data pipeline using **AWS DynamoDB** streams and **AWS Lambda** triggers for real-time event updates, leading to increased visibility
- Maintained workspace writing **over 200 test cases** across **3** engineers to oversee multiple **release candidates**

Lumenix
Toronto, ON, Canada

Software Engineer Intern
July 2020 - August 2020

- Developed a pub/sub messaging system to send events to **20+** devices written in **Python** using **AWS IoT Core**
- Improved query flexibility by redesigning **AWS DynamoDB** tables using a global secondary index

PROJECTS

Simple Distributed File System
July 2022 - Present

- A distributed file system inspired by HDFS using FsImage and EditLogs to chunk, replicate and retrieve files
- Written in **Python** using **gRPC** to create multiple volume servers to simulate a distributed environment

Pokémon Adventure
April 2021 - May 2021

- Pokémon game web app built with **React**, **Node.js** and PokéAPI utilizing **MongoDB** as a **cache** to reduce calls

Lets Chat
March 2021 - May 2021

- A chat web app built with **React** and **Node.js** utilizing **web sockets**, **GCP** Translation API and **MongoDB**

EDUCATION

University of Waterloo
Waterloo, ON, Canada

Bachelor of Applied Science in Mechatronics Engineering, Co-op
September 2019 - April 2024

SKILLS

Languages: Java, Python, C, JavaScript, Shell
Tools: AWS, Git, Django, Flask, Node.js, MongoDB, React
Relevant Coursework: Algorithms, Data Structures, Computer Structures & Real-time Operating Systems