# Daniel Lee

### EXPERIENCE

# Pepperdata

Toronto, ON, Canada

Backend Developer Intern, Platform & Infrastructure

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 serverless metrics ingestion tool to collect and ingest **100,000+ data points per day** of historical cluster metrics
- Built the tool in Java, Maven deployed to AWS Lambda, leading to a 7 day reduction in establishment time
- Led engineering-wide product design discussions for over 20 engineers on adjacent teams for updates and feedback

IBM
Backend Developer Intern

Ottawa, ON, Canada

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
- $\bullet \ \ {\bf Rewrote \ shell \ scripts \ in \ \bf Java \ to \ generate \ \bf Apache \ Kafka \ configurations \ to \ run \ internally \ on \ team \ project$
- Resolved critical 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 monitoring platform displaying administrative data of **over 50,000** patients by designing and developing a full-stack web application with **Python**, **Django**, **jQuery** and **Chart.js**
- Led the design and implementation of a data pipeline using AWS DynamoDB streams and AWS Lambda triggers, leading to increased visibility through real-time event updates
- Maintained workspace by writing over 200 test cases across 3 engineers to oversee multiple release candidates
- Collaborated with engineers to ensure all customer requirements for the MVP were fulfilled by requested deadline

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 video game web app where users battle and catch Pokémon to build a team developed using **React**, **Node.js**, **Express.js** and PokéAPI utilizing **MongoDB** as a **cache** to reduce API calls

#### Lets Chat

March 2021 - May 2021

• A chat web app where users are matched in rooms and conversations are translated in real-time built using **React**, **Node.js** and **Express.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