

Daniel Li

<https://danielsqli.vercel.app>
Honours Mathematics, Co-op

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WORK EXPERIENCE

Full Stack Developer at DST Systems

May 2020 – August 2020

- Developed a Server Inventorying Tool that scans cloud servers for VM instances and records all installed packages and executables.
- Stores gathered data in a GraphQL database, and created queries and mutations to fetch data using REST api calls from an Express server.
- Displayed all data on a web app created with React and Relay, packaged together with the Express server using Webpack.
- Also worked on Developer Portal, a portal used by companies to retrieve APIs they created.
- Created new pages on the site using Angular and Bootstrap to manage different resources
- Abstracted Java Springboot backend to not be reliant on Kong, and allow client choice of API management service
- Created new REST endpoints to store and retrieve resource configurations with a PostgreSQL database, secured with OAuth 2.0

PROJECTS

Flower Identification Android App

<https://github.com/danielsqli/flower-id>

- Created an app in team of 2 that identifies flower species from a taken picture.
- Used TensorFlow and Keras to create a Convolutional Neural Network, and optimized it with help of visualisation using Matplotlib.
- Developed app with React Native, integrating the machine learning model into the app locally with TensorFlowJS
- Deployed release build of the app to the Play Store

SKILLS

Languages

C++, Python, Java, HTML/CSS, TypeScript, SQL, L^AT_EX

Frameworks and Tools

OAuth 2.0, Node.js, Reactjs, TensorFlow, Springboot, GraphQL, Git

EDUCATION

University of Waterloo (Waterloo, Ontario)

Candidate for Bachelors of Computer Science

September 2019 – Present

Cumulative Average: 88.20%

EXTRA-CURRICULAR ACTIVITIES

Team 4001 Robotics – Lead Programmer

2015 – 2019

- Directed programming of robot, and designed teleoperated component, using Object Oriented Programming in Java in an agile environment.
- Brainstormed potential autonomous paths using PID technologies (Proportional – Integral – Derivative) and optimized with Bézier curves
- Participated in competition and qualified for provincials.