Daniel Li

https://danielsqli.com
Computer Science, Co-op

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SKILLS

Languages C++, Python, Java, HTML/CSS, R, Java/TypeScript, SQL
Frameworks and Tools Node.js, React.js, TensorFlow, Springboot, GraphQL, Git, Next.js

WORK EXPERIENCE

Full Stack Developer at SS&C Technologies *May 2020 – August 2020*

Server Inventorying Tool

- Developed a server inventorying tool that scans cloud servers for VM instances and records all installed packages and executables.
- Stored gathered data in a GraphQL database using MongoDB, 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, and deployed tool onto company cloud using Docker containers to setup environment.
- Tool made callable using an Ansible playbook.

Developer Portal

- 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 on a PostgreSQL database, secured with Keycloak

PROJECTS

Flower Identification Android App *github.com/danielsqli/FlowerID-App*

- 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

Re-Indenter Web App/REST API *github.com/danielsqli/FlowerID-App*

- Created a web app/REST API that reformats c-style syntax code
- Used a recursive descent algorithm to parse inputted code, and add newlines and indents where necessary to match generic coding style
- Front end deveoped with Next.js, and API hosted with serverless functions.

EDUCATION

University of Waterloo (Waterloo, Ontario) *September 2019 – Present*
Candidate for Bachelors of Computer Science 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.