Ray Liu

Palo Alto, California

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Skills

Languages   Python · Java · SQL · Go · Javascript · HTML/CSS
Frameworks   Spring Boot · Ruby on Rails · Django · Express.js
Tools and Others   Git · GraphQL · Docker · Kubernetes · GCP · Node.js · jquery · PostgreSQL

Experience

Tesla   *Palo Alto, California*
Software Engineering/Data Science Intern (Energy Products Team)   *Sept 2019 - Dec 2019*
- Developing Python/Scala application for monitoring and diagnosing issues with Supercharger products
- Analyzing fleet-wide Supercharger telemetry data to understand overall system performance and to look for areas of improvements utilizing various data science techniques

Publicis Sapient (Publicis Groupe)   *Toronto, Canada*
Software Engineering Intern   *June 2019 - Aug 2019*
- Led a group of interns to build a real-time ML anomaly detection microservice to process more than 2 billion stock orders per day using Python, Flask, Docker, Kubernetes and GCP
- Designed and implemented a gated content subscription service to increase user engagement of a big four accounting firm's platform with Java and Spring Boot
- Led system design and project execution for a team project based on business requirements given by key stakeholders
- Managed project updates for key stakeholders by synthesizing information from various cross-functional team members

Jumpstart   *San Francisco, California*
Growth Marketing Intern   *Mar 2019 - Present*
- Provided feedback and strategies for product and engineering teams that led to an increase in user acquisition and engagement for Jumpstart's ML recruiting platform
- Conducted user research through leveraging online forums, social media and in person interviews to influence product strategy and direction

TISC Ltd.   *Tainan, Taiwan*
Software Engineer Intern   *May 2018 - Oct 2018*
- Designed and implemented an application for the AERMOD software using Python that allows users to simulate dispersion of air pollutant emissions from stationary industrial sources with Google Earth

Projects

HeyTensor
https://Heytensor.herokuapp.com   *2019*
- Developed an ML chat application that mimics conversational behaviours with Express.js and trained model based on a massive dataset from Reddit with Python, SQL and open source machine learning libraries

Greeco
https://github.com/CheRayLiu/GreeCo   *2018*
- Designed and developed a web application that helps users to create awareness and improve in the cleanliness of their local communities by using Python, Django, Javascript and SQLite

Say-gRPC
https://github.com/CheRayLiu/say-grpc   *2019*
- Implemented a text to speech server with Go, gRPC, Protocol Buffers, flite, Kubernetes and GCP

QuickShop
https://github.com/CheRayLiu/QuickShop   *2019*
- Developed a GraphQL API using Ruby on Rails with PostgreSQL that allows users to access and manipulate product data through queries and mutations to perform actions on product inventory

Education

McMaster University   *Hamilton, Canada*
B.Eng in Software Engineering | GPA: 3.7   *Sept 2016 - April 2021*