

Jeffrey Li

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EDUCATION

CARNEGIE MELLON UNIVERSITY

BS IN ELECTRICAL AND COMPUTER ENGINEERING

MINOR IN COMPUTER SCIENCE

Expected May 2020 | Pittsburgh, PA

College of Engineering

COURSEWORK

Computer Systems (C)

Database Systems (C++)

Computer Vision (Matlab)

Embedded Systems (C)

Intro to Machine Learning (Python)

Pattern Recognition* (Matlab)

Signals and Systems (Matlab)

Functional Programming (SML)

Data Structures (C)

Parallel and Sequential Data

Structures

Structure/Design of Digital Systems

Probability Theory

Concepts of Mathematics

(* : In Progress)

SKILLS

Python • JavaScript • SQL

Golang • C/C++ • Matlab

HTML/CSS • SML/NJ

PHP • SystemVerilog • Java

React.js • Arduino • Django

INTERESTS

Computer Vision • Mapping

Algorithmic Trading • UI/UX

LINKS

Github:// [lijeffrey39](#)

LinkedIn:// [lijeffrey39](#)

EXPERIENCE

CRUISE | SOFTWARE ENGINEERING INTERN

Summer 2019 | San Francisco, CA

- Designed and implemented a scheduler for executing test simulations on the Cruise AV (Autonomous Vehicle) stack; Built using Golang and Kubernetes on top of the current custom CI infrastructure to handle 1000s of simulations every hour.
- Used React.js to create a way for engineers to instantiate/manage schedules. These were then used to track regressions and collect data to be stored with PostgreSQL.

WESTERN DIGITAL | SOFTWARE ENGINEERING INTERN

Summer 2018 | San Jose, CA

- Implemented a system for efficient integration of R&D silicon wafer operations with production wafers; Built a REST API using the existing PHP backend and MySQL, which preprocessed and pipelined the data into the model.
- Used Tensorflow to leverage this data and create a Boosted Tree Model for predicting ETA of the completion of R&D wafer requests.

ARTICULAB | RESEARCH ASSISTANT

May 2017 - September 2017 | Pittsburgh, PA

- Designed and developed the interface for a rapport-building virtual math tutor which was tested on over 30 students; Used Node.js and D3.js to integrate the virtual tutor with existing dialogue system and SVM learner model.
- Developed and tested methods for crowd-sourced dialogue annotation for training by using Amazon Mechanical Turk.

WIRELESS SHAPE-AWARE WORLD USING PASSIVE RFIDS

Research Intern | Fall 2018 | Pittsburgh, PA

- Using inexpensive, battery-free RFID tags attached to surfaces to infer shape of surface tracked from a single-antenna RFID reader.
- Implemented algorithm that models geometric constraints between coordinates of RFID tags based on flexibility of the surface.

PROJECTS

HQ TRIVIA BOT 2018

- Developed an algorithm/web application for predicting answers to trivia questions live. Implemented using Node.js, Socket.io, Google Vision/NLP, and Python.
- Used Doc2Vec to measure the cosine similarity between question and answer search results for more accurate results