KAREN LI

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EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES
SEPTEMBER 2015 TO JUNE 2019

- B.S. Computer Science
- Cumulative/Major GPA: 4.0 (Dean's Honors List)
- Engineering Ambassador for UCLA, Secretary for IEEE at UCLA

SKILLS AND COURSEWORK

LANGUAGES C++, C, Python, PHP, SQL, HTML/CSS, MATLAB/Octave

SOFTWARE TOOLS Linux, Apache, MySQL, Bootstrap, Git, Vim, Sublime Text, Xcode

CS 31 / CS 32 Intro to CS, Data Structures, Algorithms, and OOP (C++)

CS 33 Computer Organization

CS 35L Software Construction Laboratory

ML Machine Learning by Stanford University (Coursera)

EXPERIENCE

JR. WEB DEVELOPER FOR FORTINET INC.
JUNE 2016 TO SEPTEMBER 2016

- Created a new archive for Fortinet's bug reporting database to optimize time required to view entries by splitting data between two servers
- Wrote scripts to correctly insert and remove data between relational databases with tables of 4+ million entries (currently used in production)
- Utilized bug database APIs to implement a new website for Fortinet developers to view the archived entries

PROJECTS

CYBER SPIDER ATTACK DETECTION SYSTEM (C++)

- Implemented disk-based hash tables to search for relationships between known malicious entities and other entities to discover as-yet unknown malicious entities
- Received score of 99/100, whereas class median score was 53/100

HANDWRITTEN DIGIT RECOGNITION (OCTAVE/MATLAB)

- Implemented forward and back propagation algorithms with regularization on a three-layer neural network for the task of handwritten digit recognition
- Applied multiclass logistic regression for the same purpose as well

PERSONAL WEBSITE (HTML/CSS, BOOTSTRAP)

- Utilized Bootstrap Framework and integrated JS scripts to build a responsive, interactive webpage to display achievements in greater detail

SPONSORSHIP EMAIL AUTOMATION (PYTHON)

- Created script to help automate the process of sending emails via Gmail to potential sponsors for campus events, such as StartupFair.LA
- Obtained user input to format emails and complete templates used for email body

AUTONOMOUS LINE-SENSING CAR (ARDUINO)

- Soldered IR LED distance sensors, designed PCBs, and prototyped body of the car on a breadboard as part of a team capstone project for IEEE: Open Project Space
- Implemented PID control so the car can autonomously follow a line/track