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DEREK NGUYEN

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EDUCATION

University of California, Los Angeles

Fall 2013 - Spring 2017 (Expected)

- 3rd year undergraduate Computer Science, GPA: 3.555
- Coursework: Software Construction Laboratory, Logic Design of Digital Systems, Operating Systems Principles, Computer Systems
 Architecture, Database Systems, Algorithms and Complexity, Computer Network Fundamentals, Fundamentals of Artificial Intelligence,
 Formal Languages & Automata Theory

EXPERIENCE

UCLA EPSS Space Environment Model Group

October 2015 - Present

- Write and test Matlab scripts to prepare inputs to an executable to do simulation regarding radiation belts around Earth and plot the results with graphs.
- Maintained and wrote documentation for the scripts.

PROJECTS

Password Manager (Languages: Java)

July 2015

- Desktop application built with Eclipse Window Builder. Password Manager allows the user to manage their usernames and passwords and also contains a random password generator
- o Information is stored in a database using SQLite and encrypted using DES encryption algorithm with a symmetric key input by the user.

❖ Personal Website (Languages: HTML, CSS, Javascript, Framework: Bootstrap)

July 2015 - Present

o Online portfolio of my programming skills, interests, projects, and a few useful web tools, such as a world clock and a stopwatch

Steganography (Languages: Java)

August 2015

- o Allowed user to hide text message inside an image or retrieve hidden messages using the same program
- o Encrypted bits of each ASCII character in the message in the last bit of contiguous pixels of an input png image

HackSC 2014 (Name: in kitchen, Languages: Javascript, HTML, CSS)

November 2014

- With a team of four people, we made a web application where the user can input food ingredients that they have and it will generate a list
 of recipes corresponding to those ingredients
- o Implemented the front-end UI of the application with a partner and made use of Yummly's API

Movie Database (Languages: C++, PHP, HTML)

Spring 2015

- o Given information about movies and actors, built a B+ index tree for the data for faster runtime search
- o Created a web user interface that allowed users to insert new movies and search for available movies/actors in the database.

EXTRACURRICULAR

AIAA Unmanned Aerial Systems (Language: Python, Matlab)

October 2015 - Present

o Working on artificial intelligence team to implement an aircraft's image recognition system to recognize shapes and letters of signs as it navigates through designated waypoints on a test field using the OpenCV library

IEEE MicroMouse (Language: C++)

October 2014-May 2015

o Group project to create a maze-solving robot mouse using Arduino and Teensy microcontrollers, sensors, H-bridge, and wheel motors

SKILLS/STRENGTHS

Programming Languages: C++, Java, HTML, CSS, Javascript, Python, Matlab, PHP, SQL, Lisp, Bash

Development Tools: Visual Studio, Eclipse, IntelliJ IDEA, Git, Sublime Text, Maven, Emacs, VirtualBox, Android Studio, SQLite, Arduino, Electron, Adobe Photoshop/Illustrator