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# DEREK NGUYEN

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#### **EDUCATION**

## **University of California, Los Angeles**

Fall 2013 - Spring 2017 (Expected)

- 3<sup>rd</sup> year undergraduate Computer Science, GPA: 3.555

#### **EXPERIENCE**

#### Space Environment Model Group

October 2015 - Present

 Writing and testing computer codes, plotting and visualizing data, maintaining and writing documentation for data and models regarding astronomical features in outer space environment

#### **PROJECTS**

#### Password Manager/Secret Email/Steganography (Languages: Java)

July - August 2015

- o Desktop applications built with Eclipse Window Builder. Password Manager allows the user to insert, delete, update, and search their usernames and passwords stored using SQLite.
- o Secret Email is capable of sending encrypted email messages to recipients and also decrypt them
- Steganography allows the user to hide text messages inside an image and also retrieve the hidden messages

#### 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

## Tetris Game (Languages: Java)

September 2015 - Present

 Working with a friend on an implementation of the classic tetris game in Java using Maven, JUnit and Mockito for unit testing, and Java Swing for graphics.

## 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

- $\circ$  Given information about movies and actors, built a B+ tree upon the data for fast lookup
- o Created a web user interface that allows 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

 Worked on AI with a team to implement an aircraft's image recognition system to recognize shapes and color of signs as it navigates through designated waypoints on a test course

## ❖ 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