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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

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

  o Steganography allows the user to hide text messages inside an image and also retrieve the hidden messages

❖ **Personal Website (Languages: HTML, CSS, Javascript, PHP, Framework: Bootstrap)**   **July 2015 - Present**

  o Online portfolio of my programming skills, interests, projects, and a few useful web tools, such as a BMI Calculator, World Clock, and a Stopwatch

❖ **Algorithms Library/Ciphers (Languages: C++)**   **August 2015 – Present**

  o C++ library with algorithms regarding arrays, strings, trees, linked list, sorting, searching, bit manipulation, and ciphers that can provide useful helper functions in other C++ projects/implementation

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

  o 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+ 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.

❖ **LA HACKS 2014 (Name: Aria, Languages: Javascript, HTML, CSS)**   **April 2014**

  o Collaborated with a team of four people to make a webpage that would play sounds and display images according to the mood of the input

❖ **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, PHP, SQL, Lisp, Bash

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