DEREK NGUYEN

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EDUCATION

University of California, Los Angeles   **Fall 2013 – Spring 2017 (Expected)**

- 4th year undergraduate Computer Science, **GPA**: 3.6
- **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, Web Applications, Modeling Uncertainty in Information Systems, Programming Languages, Computer Security, Data Mining

EXPERIENCE

❖ **Software Engineering Internship**   **Principal Development Group Consulting**   **Jun 2016 – Aug 2016**

- Built a film budgeting organizer that allows entertainment companies to monitor their films' costs and incentives through their production process
- Worked with Java, AngularJS, Bootstrap, Spring Framework, Hibernate, Subversion, Oracle PostgresSQL, and Trello alongside a team of seven interns

❖ **Student Developer**   **UCLA EPSS Space Environment Model Group**   **Oct 2015 – Dec 2015**

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

PROJECTS

❖ **Password Manager (Languages: Java)**   **Jul 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
- 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)**   **Jul 2015 - Present**

- 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)**   **Aug 2015**

- Allowed user to hide text message inside an image or retrieve hidden messages using the same program
- 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)**   **Nov 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
- Implemented the front-end UI of the application with a partner and made use of Yummly's API

❖ **eBay Bidding Data System (Languages: Java, SQL, Frameworks: Apache Tomcat, Lucene, Axis2)**   **Jan 2016 – Mar 2016**

- Built a web site that allowed users to search and navigate eBay bidding data provided by the professor
- Parsed XML data to build an index for faster search queries and used asynchronous web requests to handle user's actions.

EXTRACURRICULAR

❖ **IEEE MicroMouse (Language: C++)**   **Oct 2014 - May 2015**

- 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, SQL, Python, HTML, CSS, Javascript, Ocaml, Prolog, PHP, Lisp, Bash

Frameworks and Libraries: AngularJS, Spring, Hibernate ORM, Jackson, Bootstrap, AJAX, Apache Lucene

Development Tools: Visual Studio, Eclipse, IntelliJ IDEA, Git, Subversion, Oracle PostgresSQL, Trello, Maven, Emacs, VirtualBox, Xilinx, SQLite, Sublime Text, Arduino, Adobe Photoshop/Illustrator