

Long Hoang

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Education

University of California, Davis | Dec 2017| **Bachelor of Sciences, Computer Science** **Davis, California**

Courses: Computer Security, Database Systems, Algorithm Design and Analysis, Operating Systems, Combinatorics, Abstract Math, Programming Languages Analysis, Computational Theory, Probability & Statistical Modeling, Linear Algebra, Multivariable Calculus

De Anza College |Jun 2014| **AT-Computer Science** **Cupertino, San Jose**

Courses: Unix/Linux Systems, Advance C/C++ Programming, Advance Java Programming, Object Oriented Design and Analysis, Discrete Math, Data Structures

Skills and Tools

Languages: Java, C++/C, PHP, CSS, HTML, Javascript, Sql, Python

Operating Systems: Android, Windows, Linux

Frameworks and Tools: Libgdx, Bootstrap, Android SDK, PostgreSQL, Apache Tomcat, Photoshop/Illustrator, Git

Experience

SVEF Teaching Assistant |Jun 2015-July 2016 | **San Jose, Ca**

-Devised lesson plans and presented lectures in a 7th-8th grade environment at both Evergreen and East-Side Union High school districts.

-Assisted with administrative procedures by devising python scripts to interact with excel sheets for grading.

Silicon Valley Edu. Foundation Intern |Feb 2015-Jun 2015 | **San Jose, Ca**

-Assisted in maintaining day to day operations.

-Automated data entry process through python scripts decreasing turnaround time from hours to minutes.

-Established and maintained relations with Vietnamese-only speaking families with effective translation, allowing Vietnamese Parents play a more impactful role in their children's education

DeAnza CIS Lab Tutor |Jan 2013-April 2014 | **San Jose, Ca**

-Tutored students at a college level for courses in Java, C++, and Data Structures.

-Broke down complicated concepts and made them more digestible with relatable ideas and examples.

-Analyzed students' comprehension and prepared unique learning goals for each student.

Notable Projects

Getting Things Done App | **Personal Project**

-An app based on the principles of David Allen's Getting Things Done for user's productivity and life goals.

-Designed and implemented an intuitive user interface that is both accessible and appealing to users

-Implemented SQLite backend for scalable memory usage.

CTZ Car Web Service | Course: **Advance Java**

-Term project on developing a Java web service for a car dealership.

-Implemented a multi-threaded Java backend server using Sockets for multiple car orders to be processed at once.

-Used Servlets to deploy server on Apache Tomcat.

Root User Bypass/Return-To-Libc Attack | Course: **Computer Security**

-Used Prof. Matthew Bishop's "Principles of Robust Programming" to create a program that gives root privileges to programs of unauthorized users.

-Used Linux's system library to verified and alter user's permissions within non-root accounts.

-Examined other student's projects and designed multiple buffer overflow attack and return-to-libc attack.