

# Andrew Liu

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## EDUCATION

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### University of California, Berkeley

Bachelor of Science, Electrical Engineering and Computer Science **GPA: 3.77**

May 2018

Coursework: Structure and Interpretation of Computer Programs (CS-61A), Data Structures (CS-61B),  
Discrete Mathematics and Probability Theory (CS-70), Multivariable Calculus and Linear Algebra

## TECHNICAL SKILLS

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Programming Languages: Java, Python, MatLab, C, SQL, PHP, HTML, CSS

Workflow Tools: Git, REST, Microsoft Office Suite

Language: Intermediate Mandarin

## WORK EXPERIENCE

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### Hewlett Packard

Boise, Idaho

Research and Development Intern

Summer 2014

Developed computer vision debugging software for printer formatters. The final product was a computer vision application capable of diagnosing a printer's flashing error sequence and linking it to a specific error message.

- Designed and implemented light recognition image processing algorithms with near 100% accuracy
- Presented a proof-of-concept demonstration to leading developers at HP
- Built a desktop and mobile interface for customers use and a developer mode for HP use
- Filed a potential patent for techniques developed

### Hewlett Packard

Boise, Idaho

Web Database Intern

Summer 2015

Deployed interfaces and frameworks for automatic migration and transformation of customer bug data between independent internal databases.

- Developed an interface to allow technician employees to tag additional customer metadata
- Created a testing interpreter to validate correct SQL query cases
- Employed live synchronization and atomic locking to prevent data collisions

## PROJECTS

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### Reddit Link Parsing Bot

October 2014-Present

Python, CSS

Using PRAW API, developed a Python script that scans Reddit's content and identifies Reddit links posted by users. The script parses the link for textual data and posts a reply utilizing a custom-made CSS style sheet. Tested on live server with generally positive responses.

### Color-Time Project

December 2014

HTML, CSS, JavaScript

Inspired by other color-time projects online, I developed my own as a way to familiarize myself with HTML and CSS's syntax.

### Class Projects

Academic Year 2014-2015

Python, Java

A part of the CS-61 curriculum include various projects involving key concepts such as abstraction barriers, inheritance, and programming paradigms

## AWARDS

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**California Alumni Association Leadership Scholar (2014)** - A merit-based scholarship given to students who demonstrate innovative, initiative-driven leadership impacting their academic, work, or community environment.