

# Andrew Liu

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## EDUCATION

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### University of California, Berkeley

B.S, Electrical Engineering and Computer Science **GPA: 3.81 Technical GPA: 4.00**

May 2017

Coursework: Data Structures, Machine Learning, Discrete Mathematics, Probability Theory and Random Processes, Introduction to Machine Structures, Multivariable Calculus and Linear Algebra

## TECHNICAL SKILLS

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

Workflow Tools: Git, REST, Microsoft Office Suite, Bootstrap

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

### OskiLab

Berkeley, California

Research Assistant

Fall 2015

Worked on data scraping and pre-processing methods, employing optical character recognition to extract textual data from graphics. Feature extraction on consumer images to classify products.

## PROJECTS

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### Reddit Link Parsing Bot

October 2014-January 2015

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.

### Player-Rank Project

October 2015

Python

Developed a modified player-rank algorithm based on the weekly performance of League of Legends solo queue to identify the top players. Started as a class project.

## 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.

**Eta Kappa Nu (2015)** - Electrical Engineering Computer Science honor society, provides various services to undergraduate students.