

# David Liu

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## EXPERIENCE

### Summer Internship at Doximity 2015

Developed a supervised machine-learning algorithm with 80% accuracy (cross-validated) in Python to identify mal-formed articles scraped from other sites using NLTK and data visualization tools. Also triangulated doctor names in news articles to facilities and database profiles using reverse geocoding and fuzzy string matching.

### Summer Internship at PriceWater Capital 2014

Used WordPress, Adobe Dreamweaver, and Adobe Photoshop for front-end development while also making adjustments to customize the website for the company using PHP. Also worked with some MySQL when managing backend database content and backing up files.

### Summer Internship at New Jersey City University 2013

Worked as an associate of an android application development team to build a tool for medical offices that submits information through a secure form using PHP, XML, and AJAX. Independently contributed through debugging backend issues, tutoring others on Github, and developing a few pages of the medical forms.

### Summer Internship at Monmouth University; West Long Branch, New Jersey 2012

Programmed an online FAQ with a database. Worked with MySQL and PHP to develop a template structure implemented by the university. Also used HTML, CSS, and JavaScript for front-end development to design an appealing interface for users.

## PROJECTS

(2014-Present) Developed a web parser that scraps data from news sites to calculate sentiment associated with certain currencies and uses a web socket connection through the Ripple API to automate transactions on the Ripple trade servers. Won 3rd place in Ripple API contest. Currently constructing an interface to customize trade algorithms based on established sentiments. Project involves usage of Python, JSON, Node.js, Bash scripts, and a pre-loaded dataset of words with sentiment values.

(2015) Implemented a WordNet parser that allows user to access and visualize usage history of words within a time-series using Java.

(2014) Developed Twitter sentiment calculation UI based on datasets with geographical coordinates and a given message using Python.

(2014) Participated in HackBCA and coded PollTrakr: a web application that allows individuals to anonymously suggest and up-vote ideas in an organization through tiers of management, only able to be seen when the idea successfully "passes", similar to passing government legislation. Used PHP, JavaScript, HTML, and CSS.

## EDUCATION

Pursuing BA in Computer Science at UC Berkeley (Expected Graduation 2018)

Technical Classes Taken: Structures and Interpretation of Language, Ripple API, Linear Algebra, Data Structures, Multivariable Calculus

Current Technical Classes: Machine Structures, Discrete Mathematics and Probability, Self-Paced C++

## LANGUAGES/Frameworks

Proficient: HTML, CSS, Bootstrap, Java, PHP, MySQL, Python.

Familiar with: Ruby, JQuery, PHP, JavaScript, Microsoft Basic, Scheme, C++, C, MIPS.

Have used: Ruby on Rails, Node.js, XML, Bash.

**Transcripts and references available upon request.**