

# Richard Chiou

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<https://www.linkedin.com/in/richard-chiou-1275744b>

## OBJECTIVE

Current Master of Engineering student at UC Berkeley with agile software development and testing experience. Working with a capstone team led by Prof. John Canny to implement the BIDData framework with Kylix allreduce in Apache Spark. Looking to contribute to a team working on problems in Data Science or Internet of Things after graduation.

## EDUCATION

University of California, Berkeley, CA

Master of Engineering in Electrical Engineering and Computer Science

Expected May 2016

Columbia University, Columbia College, New York, NY

Bachelor of Arts in Computer Science, Economics-Mathematics (Dean's List)

May 2015

## SKILLS

Programming: C, C++, Python, Java, Ruby, Javascript, OCAML

Software: R, Mathematica, LaTeX, STATA, MATLAB, Amazon EC2

## WORK EXPERIENCE

PayPal, Inc., San Jose, CA

*Mobile Operability Software Development Intern*

May 2015 - August 2015

- Performed root cause analysis on Android app test failures and developed a script to automate the team's internal soft failure alert Watchtower system.
- Built a login performance dashboard to be added to the team's Mobile Dashboard, which relays statistics on the recent performance of PayPal's mobile apps.

*Mobile Tools Software Development Intern*

May 2014 - August 2014

- Developed the PPUtils tool using QIJobs RestService API, which enables dynamic creation of PPUsers with accounts, balances, banks, and debit/credit cards. PPUtils is used for automated testing and continuous integration of the PayPal iOS and Android mobile apps in pre-production.

Columbia University, New York City, NY

*Natural Language Processing Teaching Assistant*

January 2015 - May 2015

- Assisted students with NLP programming and theory assignments at weekly office hours.
- Taught recitation when the course's professor was away at conferences. Graded assignments and exams.

*Advanced Programming Teaching Assistant*

September 2012 - December 2013

- Helped students with C, C++, memory management, and TCP/IP networking concepts at office hours.
- Organized and led recitations and review sessions. Graded assignments and exams.

*EnHANTS Project Research Assistant, WiMNet Lab*

September 2013 - May 2014

- Implemented new protocols to transfer the existing Energy Harvesting and Network Tags multihop network demo, specifically the network and applications layer, to a new framework and improve existing functionality.

AlephCloud Systems, Inc., Sunnyvale, California

*Back-end Development Intern*

June 2013 - August

2013

- Configured syslog redirection on AlephCloud's Amazon EC2 servers.
- Developed a log aggregation tool in node.js/Express that displays syslogs in a user-friendly web application.

*Front-end Development Intern*

May 2012 - August

2012

- Wrote the HTML files underlying the alpha version of AlephCloud's secure file-sharing client UI and added JavaScript/jQuery functionality to the beta version of the client UI.

## HONORS

2013 Windward International Collegiate Programming Competition Finalist

2013 University Hacker Olympics Semifinalist

2011 North American Computational Linguistics Olympiad Finalist

2011 National AP Scholar

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2011 National Merit Scholarship Winner