

# George Yiu

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## EDUCATION

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### M.S. Computer Science

Expected Graduation: May 2015

University of California, Berkeley

### B.S. Electrical Engineering & Computer Science

Graduated: May 2014

University of California, Berkeley

Cumulative GPA: 3.86

Coursework: Operating Systems, Security, Networks, Machine Learning, Statistical Inference, Artificial Intelligence, Compilers, Databases, Algorithms, Data Structures, Machine Structures, Signals and Systems, Discrete Math and Probability

## INTERNSHIPS

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### Platform Engineering Intern, InKling

May 2013 – Aug 2013

- Extended RESTful APIs, designed and implemented controller for media-service API calls, improved server-side Memcached usage
- Wrote Jenkins jobs that interact with the APIs to streamline and to automate parts of the book-creation process

### Software Engineer Intern, NetApp

May 2012 – Aug 2012

- Developed a command-line tool within NetApp's Data Ontap (FreeBSD-based) operating system that allows developers to generate comprehensive datasets on the fly from within the kernel, rather than running scripts on a mounted filesystem, greatly improving workflow and test coverage
- Built an extensible testing framework, which leverages WAFL's file I/O and snapshot APIs, that creates and modifies datasets for the following areas: deduplication, compression, and file-inode attributes/flags

## RESEARCH

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### Research Assistant (Prof. Anthony Joseph)

Aug 2014 – Present

- Designing and building machine learning pipeline for time-series classification of 1M+ malware submissions to VirusTotal using PySpark

### Research Assistant (Prof. David Wagner)

Sep 2012 – Aug 2013

"Improved Support for Machine-Assisted Ballot-Level Audits," Eric Kim, Nicholas Carlini, Andrew Chang, George Yiu, Kai Wang, David Wagner. EVT/WOTE 2013, August 2013.

- Developed for the open source OpenCount election auditing project, decoding ES&S style barcodes to bit-strings using OpenCV and built quarantine panel used for manually processing flagged ballots that need human evaluation
- Built Android application used to automatically sync data between two devices over Bluetooth based on sound proximity

### Research Assistant (Prof. Ion Stoica, Dr. Adam Oliner)

Feb 2013 – Aug 2013

- Worked on the Carat project's backend system that aggregates and analyzes battery drain samples to determine the battery usage of individual mobile apps
- Designed iterative algorithm using Spark for streaming input to produce near real-time stats compared to the 4-hour bulk-process job

## INVOLVEMENT

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### Teaching Assistant, CS162 (Operating Systems)

Aug 2013 – May 2014

- Led discussion sections, held office hours, graded projects and exams

### Lab Assistant, CS61C (Machine Structures)

Jan 2012 – May 2012

- Aided TA on lab check-offs and helped explain class concepts to students

### Course Reader, CS61B (Data Structures)

Jan 2012 – May 2012

- Graded students' homework assignments and projects

### Tau Beta Pi (TBP) – Publicity Officer, Member

Jan 2012 – Present

### Eta Kappa Nu (HKN) – Member

Jan 2012 – Present

## SKILLS ([GITHUB.COM/GEORGEYIU](https://github.com/georgeyi) || [GEORGEYIU.COM](http://georgeyi.com))

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**Languages:** Python, Java, C (also Scala, Ruby, Lua, Scheme, JavaScript, HTML, CSS)

**Limited Experience:** Linux, OS X, Spark, Django, Ruby on Rails, Android, Matlab