

# Calvin Lui

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## EDUCATION

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**University of California, Berkeley** | Berkeley, CA

B.S. Electrical Engineering and Computer Science

*Class of 2017*

**Relevant Coursework:** *Currently Enrolled \**

61B: Data Structures	170: Algorithms / Intractable Problems	61C: Computer Architecture
186: Database Systems	162: Operating Systems	70: Discrete Mathematics / Probability Theory
168: Networking*	161: Computer Security	188: Artificial Intelligence

## PROFESSIONAL EXPERIENCE

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**Software Engineering Intern** | Cisco Systems, Inc.

*May 2016 – Aug 2016*

- Full-stack development of Platform as a Service (PaaS) application for creating and running custom tool chains
- Designed a flow/emits NoSql database model and integrated code coverage metrics with visual analysis
- Integrated RedisMQ scheduler to dynamically route requests and execute tasks based on available resources
- Python based RESTful API on a Flask web server utilizing MongoDB, jinja rendering, javascript, & jQuery
- Top 7 Finalist team for business unit hackathon with custom dashboards on top of an internal log base

**Software Engineer, Part-time** | TrueCar Inc.

*Oct 2015 – Dec 2015*

- Developed an internal Java API catering to data analysts to make simple requests to invoke custom Hadoop data processing, Spark model training, and error statistics generation to provide simple access to resources
- Used Apache Zeppelin to create a structured, customizable Scala notebook enabling interactive visualizations

**Data Engineering & Science Intern** | TrueCar Inc.

*May 2015 – Aug 2015*

- Applied machine learning libraries to generate pricing models that accurately determines the market retail value of used vehicles to within a mean absolute percent error (MAPE) of 7%
- Constructed a multi-step workflow in Apache Hadoop (Java) & Spark (Scala) to pre-process, enrich, and filter numerous large data sets under an application scheduler
- Calculated metrics depicting current auto-market trends, and indexed to Elasticsearch for Kibana dashboards

## PROJECTS

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**Mozilla Firefox (Marionette)** | *Open Source Contribution*

*July 2016 – Present*

- Contributed bug patches to the automation driver & test tools for the Firefox (Gecko engine) desktop platform

**Stock Quote Tracker** | Java, *Personal Project*

*Dec 2014*

- Built a JFC/Swing GUI app that retrieves real-time quotes through Yahoo Finance API & Java multi-threading

**Course Exam Downloader** | Python, *Personal Project*

*Dec 2015*

- Implemented a web scraper that identifies & downloads past exams from UC Berkeley course exam databases
- BeautifulSoup 4 (HTML Parser) and Requests (HTTP) Python Packages

**Apache Spark Puzzle Solver** | Python & Spark, *Class Project*

*Oct 2014*

- Utilized Spark's MapReduce framework and Amazon EC2 to solve reversible puzzles with breadth-first search

## SKILLS

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**Proficiency In:** Python, Java, SQL

**Exposure In:** C, HTML/CSS, Flask, MongoDB (NoSQL), Javascript (jQuery), Jinja, Hadoop, XML/YAML, Git, Unix(Shell Scripting), Apache Tools (Oozie, Maven, Avro, YARN), Spark, Scala, Elasticsearch, Heroku, Agile

## ADDITIONAL ACTIVITIES AND EMPLOYMENT

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Berkeley Student Affairs - IT  
Sigma Phi Epsilon, *Cal Alpha*

Berkeley IEEE  
Alpha Phi Omega, *Gamma Gamma*