

Juan Lasheras

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juanl.org, github.com/jlas
US Citizen

Skills
Proficient Python, C, JavaScript, kdb+/q, Git/SVN/hg, HTML5/CSS3, GNU/Linux
Knowledgeable Java, C++, Lisp, PHP, SQL/NoSQL, Machine Learning, Realtime, AWS/Cloud, Windows, Agile

Work
Standard Cognition *San Francisco, SF*
Senior Software Engineer
Oct 2017 - Present
◦ Standard Cognition is a Y Combinator-backed company building autonomous checkout for retail stores.

U.S. Securities and Exchange Commission (SEC) *New York, NY*
Senior Software Engineer (Contractor)
June 2015 - June 2017
◦ Lead dev for the National Exam Analytics Tool (NEAT).
◦ NEAT programmatically analyzes millions of trades to detect fraud.
◦ Oversaw transition from prototype to production rollout to 1k+ enterprise users.
◦ SEC Chair Mary Jo White on NEAT: "These efforts and others have enhanced our ability to reach more registrants, and more effectively use our limited examination resources." [1]
◦ Developed illustrative visualizations to easily spot suspicious trading.
◦ Implemented **3NF** relational database schema in kdb+/q to link raw and reference data.
◦ Designed and built a **B-tree** based time series component to visualize HFT data.
◦ Worked closely with quants and researchers to build analytical tools.
◦ kdb+/q, python (pandas, numpy, flask), javascript (es6, react.js)

Coffeetheapp *New York, NY*
Lead Engineer
Jan. 2015 - April 2015
◦ Built professional networking webapp (think LinkedIn) with desktop & mobile responsive design.
◦ Researched machine learning algorithms for recommending job candidates & professional matches.

Lab49 *New York, NY*
WebUI Consultant
May 2014 - Dec. 2014
◦ Developed enterprise (50k+ LOC) data-driven real estate management software (AngularJS v1).

Kioos *São Paulo, Brazil*
Senior Software Engineer
May 2013 - Jan. 2014
◦ First hire. Built MVP in 3 months: gamification solution for popular e-commerce platform Magento.

Advanced Simulation Technology, Inc. *Herndon, VA*
Software Engineer
June 2009 - April 2013
◦ Developed real-time audio and DSP components in C.
◦ Built URC-200 (MIL radio) remote control system: realtime driver in C talking to a web UI.
◦ Built framework for automating VoIP clients at large scale (100+ clients).

Projects / Code
ml.q github.com/jlas/ml.q 2016 - Present
◦ Machine Learning for kdb+/q

Kaggle kaggle.com/juanlasheras 2015 - Present
◦ Applied Machine Learning competitions.

Sample Code github.com/jlas/sample-code 2013 - Present
◦ Small code samples: [Project Euler](#), [HackerRank](#), and more.

Education
Georgia Tech *Online*
M.Sc. Computer Science 2019 (Expected)

Carnegie Mellon University *Pittsburgh, PA*
B.Sc. Electrical and Computer Engineering, with Honors May 2009

This document is available at <http://www.juanl.org/resume.pdf>

[1] <https://www.sec.gov/news/testimony/white-testimony-sec-agenda-fy2018-budget-request.html>