

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*
Staff Software Engineer Oct 2017 - Present

- First engineer. Lead dev for backend.
- Standard Cognition is a Y Combinator-backed company building autonomous checkout for retail.

[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](#) github.com/jlas/kaggle 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 2020 (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>