

# Juan Lasheras

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US Citizen

## Education

### [Georgia Tech](#)

M.Sc. Computer Science, specializing in Machine Learning

Atlanta, GA

2018 (Expected)

### [Carnegie Mellon University](#)

B.Sc. Electrical and Computer Engineering, with Honors

Pittsburgh, PA

May 2009

## Work

### [U.S. Securities and Exchange Commission](#)

Senior Applications Engineer (Contractor)

New York, NY

June 2015 - Present

- 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
- 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 proper (3NF) relational database schema in kdb+/q to link raw and reference data
- kdb+/q, python (pandas), javascript (react.js)

### [Coffeetheapp](#)

Lead Engineer

New York, NY

Jan. 2015 - April 2015

- Built professional networking platform for web with AngularJS featuring seamless responsive design.
- Developed machine learning algorithms for recommending job candidates & professional matches.
- Used docker to create reproducible environments for development and continuous integration (via Jenkins).

### [Lab49](#)

WebUI Consultant

New York, NY

May 2014 - Dec. 2014

- Developed an enterprise (50k+ LOC) AngularJS real-estate management application, featuring virtualized datagrids and data-driven components.

### [Kioos](#)

Senior Software Engineer

São Paulo, Brazil

May 2013 - Jan. 2014

- First hire. Built MVP in 3 months: an e-commerce + gamification solution for Magento (PHP).

### [Advanced Simulation Technology, Inc.](#)

Software & Project Engineer

Herndon, VA

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), featuring: a distributed architecture (using the [Actor model](#), via python-actors), and Zeroconf integration (via avahi).

### [JPMorgan Chase & Co.](#)

Summer Technology Analyst

New York, NY

Summer 2008

- Programmed test scripts in Java and Python for a securities trading platform.

## Projects / Code

### [Sample Code](#)

[github.com/jlas/sample-code](https://github.com/jlas/sample-code)

- Small code samples: [Project Euler](#), [HackerRank](#), and more.

### [ml.q](#)

[github.com/jlas/ml.q](https://github.com/jlas/ml.q)

- Machine Learning for kdb+/q

### [Kaggle](#)

[kaggle.com/juanlasheras](https://kaggle.com/juanlasheras)

2015 - Present

- Applied Machine Learning competitions.

### [Quirky](#)

[github.com/jlas/quirky](https://github.com/jlas/quirky)

2012

- Open source clone of the Qwirkle board game. Made with node.js and jQuery.

## Skills

Python

JavaScript

C

kdb+/q

Machine Learning

Java

Lisp

GNU/Linux

Git/SVN/hg

node.js

HTML5/CSS3

SQL/NoSQL

Cloud/AWS

Realtime

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>