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, SQL/NoSQL, Machine Learning, Realtime, AWS/Cloud, Agile	

Work

U.S. Securities and Exchange Commission
Senior Software 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, numpy, flask), javascript (es6, 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

- Small code samples: Project Euler, HackerRank, and more.

ml.q
github.com/jlas/ml.q

- Machine Learning for kdb+/q

Kaggle
kaggle.com/juanlasheras
2015 - Present

- Applied Machine Learning competitions.

Quirky
github.com/jlas/quirky
2012

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

Education

Georgia Tech
M.Sc. Computer Science

Atlanta, GA
2018 (Expected)

Carnegie Mellon University
B.Sc. Electrical and Computer Engineering, with Honors

Pittsburgh, PA
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