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, AWS/Cloud, Realtime, Windows, Agile	

Work

U.S. Securities and Exchange Commission — *New York, NY*
Senior Software Engineer (Contractor) — 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 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 effective 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 (LinkedIn clone) 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) real estate management software (AngularJS v1).

Kioos — *São Paulo, Brazil*
Senior Software Engineer — May 2013 - Jan. 2014
- First hire. Built MVP in 3 months: an e-commerce + gamification solution for Magento (Amazon clone).

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

JPMorgan Chase & Co. — *New York, NY*
Summer Technology Analyst — Summer 2008
- Programmed test scripts in Java and Python for trading software.

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.

Quirky — github.com/jlas/quirky — 2012
- Open source clone of the Qwirkle board game. Made with node.js and jQuery.

Education

Georgia Tech — *Atlanta, GA*
M.Sc. Computer Science — 2018 (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