

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	U.S. Securities and Exchange Commission (SEC)	<i>New York, NY</i>	
	Senior Software Engineer (Contractor)	June 2015 - Present	
	<ul style="list-style-type: none">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 analytical tools.kdb+/q, python (pandas, numpy, flask), javascript (es6, react.js)		
	Coffeetheapp	<i>New York, NY</i>	
	Lead Engineer	Jan. 2015 - April 2015	
	<ul style="list-style-type: none">Built professional networking webapp (think LinkedIn) with desktop & mobile responsive design.Researched machine learning algorithms for recommending job candidates & professional matches.		
	Lab49	<i>New York, NY</i>	
	WebUI Consultant	May 2014 - Dec. 2014	
	<ul style="list-style-type: none">Developed enterprise (50k+ LOC) data-driven real estate management software (AngularJS v1).		
	Kioos	<i>São Paulo, Brazil</i>	
Senior Software Engineer	May 2013 - Jan. 2014		
<ul style="list-style-type: none">First hire. Built MVP in 3 months: gamification solution for popular e-commerce platform Magento.			
Projects / Code	Advanced Simulation Technology, Inc.	<i>Herndon, VA</i>	
	Software Engineer	June 2009 – April 2013	
	<ul style="list-style-type: none">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.	<i>New York, NY</i>	
	Summer Technology Analyst	Summer 2008	
	<ul style="list-style-type: none">Programmed test scripts in Java and Python for trading software.		
	ml.q	github.com/jlas/ml.q	2016 - Present
	<ul style="list-style-type: none">Machine Learning for kdb+/q		
	Kaggle	kaggle.com/juanlasheras	2015 - Present
	<ul style="list-style-type: none">Applied Machine Learning competitions.		
Sample Code	github.com/jlas/sample-code	2013 - Present	
<ul style="list-style-type: none">Small code samples: Project Euler, HackerRank, and more.			
Quirky	github.com/jlas/quirky	2012	
<ul style="list-style-type: none">Open source clone of the Qwirkle board game. Made with node.js and jQuery.			
Education	Georgia Tech	<i>Atlanta, GA</i>	
	M.Sc. Computer Science	2018 (Expected)	
	Carnegie Mellon University	<i>Pittsburgh, PA</i>	
	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>