

# Juan Lasheras

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[juanl.org](http://juanl.org), [github.com/jlas](https://github.com/jlas)  
US Citizen

Skills	<b>Proficient</b>	Python, C, JavaScript, kdb+/q, Git/SVN/hg, HTML5/CSS3, GNU/Linux
	<b>Knowledgeable</b>	Java, C++, Lisp, PHP, SQL/NoSQL, Machine Learning, Realtime, AWS/Cloud, Windows, Agile
Work	<a href="#">U.S. Securities and Exchange Commission (SEC)</a>	New York, NY
	Senior Software Engineer (Contractor)	June 2015 - Present
	<ul style="list-style-type: none"><li>Lead dev for the National Exam Analytics Tool (NEAT).</li><li>NEAT programmatically analyzes millions of trades to detect fraud.</li><li>Oversaw transition from prototype to production rollout to 1k+ enterprise users.</li><li>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]</li><li>Developed illustrative visualizations to easily spot suspicious trading.</li><li>Implemented <a href="#">3NF</a> relational database schema in kdb+/q to link raw and reference data.</li><li>Designed and built a <a href="#">B-tree</a> based time series component to visualize HFT data.</li><li>Worked closely with quants and researchers to build analytical tools.</li><li>kdb+/q, python (pandas, numpy, flask), javascript (es6, react.js)</li></ul>	
	<a href="#">Coffeetheapp</a>	New York, NY
	Lead Engineer	Jan. 2015 - April 2015
	<ul style="list-style-type: none"><li>Built professional networking webapp (think LinkedIn) with desktop &amp; mobile responsive design.</li><li>Researched machine learning algorithms for recommending job candidates &amp; professional matches.</li></ul>	
	<a href="#">Lab49</a>	New York, NY
	WebUI Consultant	May 2014 - Dec. 2014
	<ul style="list-style-type: none"><li>Developed enterprise (50k+ LOC) data-driven real estate management software (AngularJS v1).</li></ul>	
	<a href="#">Kioos</a>	São Paulo, Brazil
	Senior Software Engineer	May 2013 - Jan. 2014
Projects / Code	<ul style="list-style-type: none"><li>First hire. Built MVP in 3 months: gamification solution for popular e-commerce platform Magento.</li></ul>	
	<a href="#">Advanced Simulation Technology, Inc.</a>	Herndon, VA
	Software Engineer	June 2009 - April 2013
	<ul style="list-style-type: none"><li>Developed real-time audio and DSP components in C.</li><li>Built URC-200 (MIL radio) remote control system: realtime driver in C talking to a web UI.</li><li>Built framework for automating VoIP clients at large scale (100+ clients), featuring: a distributed architecture (using the <a href="#">Actor model</a>, via python-actors), and Zeroconf integration (via avahi).</li></ul>	
	<a href="#">JPMorgan Chase &amp; Co.</a>	New York, NY
	Summer Technology Analyst	Summer 2008
	<ul style="list-style-type: none"><li>Programmed test scripts in Java and Python for trading software.</li></ul>	
	<a href="#">ml.q</a>	github.com/jlas/ml.q
	<ul style="list-style-type: none"><li>Machine Learning for kdb+/q</li></ul>	
	<a href="#">Kaggle</a>	kaggle.com/juanlasheras
Education	<ul style="list-style-type: none"><li>Applied Machine Learning competitions.</li></ul>	
	<a href="#">Sample Code</a>	github.com/jlas/sample-code
	<ul style="list-style-type: none"><li>Small code samples: <a href="#">Project Euler</a>, <a href="#">HackerRank</a>, and more.</li></ul>	
	<a href="#">Quirky</a>	github.com/jlas/quirky
	<ul style="list-style-type: none"><li>Open source clone of the Qwirkle board game. Made with node.js and jQuery.</li></ul>	
	<a href="#">Georgia Tech</a>	Atlanta, GA
	M.Sc. Computer Science	2018 (Expected)
	<a href="#">Carnegie Mellon University</a>	Pittsburgh, PA
	B.Sc. Electrical and Computer Engineering, with Honors	May 2009
	This document is available at <a href="http://www.juanl.org/resume.pdf">http://www.juanl.org/resume.pdf</a>	

[1] <https://www.sec.gov/news/testimony/white-testimony-sec-agenda-fy2018-budget-request.html>