

# 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, JS, C, HTML5/CSS3, SQL, Git/SVN/hg, AWS/GCP/Azure, GNU/Linux, kdb+/q <b>Knowledgeable</b> Rust, Java, C++, AI/CV/ML, Lisp, PHP, NoSQL, Realtime, Windows, Agile	
Work	<b>Standard Cognition</b> Staff Software Engineer <ul style="list-style-type: none"><li>Standard Cognition is automating checkout in the retail industry, backed by YC &amp; SoftBank</li><li>First tech hire. Tech lead for backend team.</li><li>Contributions across various infra and product teams: perception &amp; mapping, human tracking, product analytics, realtime core, computer vision, site reliability, embedded devices, mobile &amp; frontend</li></ul>	<i>San Francisco, SF</i> Oct 2017 - Present
	<b>U.S. Securities and Exchange Commission (SEC)</b> Senior Software Engineer (Contractor) <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 <b>3NF</b> relational database schema in kdb+/q to link raw and reference data.</li><li>Designed and built a <b>B-tree</b> 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>	<i>New York, NY</i> June 2015 - June 2017
	<b>Coffeetheapp</b> (Social Networking Startup) Lead Engineer <ul style="list-style-type: none"><li>Built professional networking webapp (think LinkedIn) with desktop &amp; mobile responsive design.</li></ul>	<i>New York, NY</i> 2015
	<b>Lab49</b> (Fintech Consulting) WebUI Consultant <ul style="list-style-type: none"><li>Developed enterprise (50k+ LOC) data-driven real estate management software (AngularJS v1).</li></ul>	<i>New York, NY</i> 2014
	<b>Kioos</b> (E-commerce Startup) Senior Software Engineer <ul style="list-style-type: none"><li>First hire. Built MVP in 3 months: gamification solution for popular e-commerce platform Magento.</li></ul>	<i>São Paulo, Brazil</i> 2013 - 2014
	<b>Advanced Simulation Technology, Inc.</b> Software Engineer <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).</li></ul>	<i>Herndon, VA</i> 2009 - 2013
Projects / Code	<b>ml.q</b> <a href="https://github.com/jlas/ml.q">github.com/jlas/ml.q</a> <ul style="list-style-type: none"><li>Machine Learning for kdb+/q</li></ul>	2016 - Present
	<b>Kaggle</b> <a href="https://github.com/jlas/kaggle">github.com/jlas/kaggle</a> <ul style="list-style-type: none"><li>Applied Machine Learning competitions.</li></ul>	2015 - Present
	<b>Sample Code</b> <a href="https://github.com/jlas/sample-code">github.com/jlas/sample-code</a> <ul style="list-style-type: none"><li>Small code samples: <a href="#">Project Euler</a>, <a href="#">HackerRank</a>, and more.</li></ul>	2013 - Present
Education	<b>Georgia Tech</b> M.Sc. Computer Science, Machine Learning specialization	<i>Online</i> May 2020
	<b>Carnegie Mellon University</b> B.Sc. Electrical and Computer Engineering, with Honors	<i>Pittsburgh, PA</i> 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>