

# Juan Lasheras

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

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|-----------------|--|---|
| Skills          | <b>Proficient</b> Python, C, JavaScript, kdb+/q, Git/SVN/hg, HTML5/CSS3, GNU/Linux<br><b>Knowledgeable</b> Java, C++, Lisp, PHP, SQL/NoSQL, Machine Learning, Realtime, AWS/Cloud, Agile   |   |
| Work            | <u><a href="#">U.S. Securities and Exchange Commission</a></u><br>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>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 effective tools.</li><li>kdb+/q, python (pandas, numpy, flask), javascript (es6, react.js)</li></ul> | New York, NY<br>June 2015 - Present       |
|                 | <u><a href="#">Coffeetheapp</a></u><br>Lead Engineer <ul style="list-style-type: none"><li>Built professional networking webapp (LinkedIn clone) with desktop &amp; mobile responsive design.</li><li>Researched machine learning algorithms for recommending job candidates &amp; professional matches.</li></ul>   | New York, NY<br>Jan. 2015 - April 2015    |
|                 | <u><a href="#">Lab49</a></u><br>WebUI Consultant <ul style="list-style-type: none"><li>Developed enterprise (50k+ LOC) real estate management software (AngularJS v1).</li></ul>   | New York, NY<br>May 2014 - Dec. 2014      |
|                 | <u><a href="#">Kioos</a></u><br>Senior Software Engineer <ul style="list-style-type: none"><li>First hire. Built MVP in 3 months: an e-commerce + gamification solution for Magento (Amazon clone).</li></ul>  | São Paulo, Brazil<br>May 2013 - Jan. 2014 |
|                 | <u><a href="#">Advanced Simulation Technology, Inc.</a></u><br>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), featuring: a distributed architecture (using the <a href="#">Actor model</a>, via python-actors), and Zeroconf integration (via avahi).</li></ul>  | Herndon, VA<br>June 2009 - April 2013     |
|                 | <u><a href="#">JPMorgan Chase &amp; Co.</a></u><br>Summer Technology Analyst <ul style="list-style-type: none"><li>Programmed test scripts in Java and Python for trading software.</li></ul>  | New York, NY<br>Summer 2008               |
| Projects / Code | <u><a href="#">ml.q</a></u> <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                            |
|                 | <u><a href="#">Kaggle</a></u> <a href="https://kaggle.com/juanlasheras">kaggle.com/juanlasheras</a> <ul style="list-style-type: none"><li>Applied Machine Learning competitions.</li></ul>   | 2015 - Present                            |
|                 | <u><a href="#">Sample Code</a></u> <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                            |
|                 | <u><a href="#">Quirky</a></u> <a href="https://github.com/jlas/quirky">github.com/jlas/quirky</a> <ul style="list-style-type: none"><li>Open source clone of the Qwirkle board game. Made with node.js and jQuery.</li></ul>   | 2012                                      |
| Education       | <u><a href="#">Georgia Tech</a></u><br>M.Sc. Computer Science  | Atlanta, GA<br>2018 (Expected)            |
|                 | <u><a href="#">Carnegie Mellon University</a></u><br>B.Sc. Electrical and Computer Engineering, with Honors  | Pittsburgh, PA<br>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>