

Juan Lasheras

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juanl.org, github.com/jlas
US Citizen

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|-----------------|--|--|
| 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 | New York, NY |
| | 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 effective tools.kdb+/q, python (pandas, numpy, flask), javascript (es6, react.js) | |
| | Coffeetheapp | New York, NY |
| | Lead Engineer | Jan. 2015 - April 2015 |
| | <ul style="list-style-type: none">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 |
| | <ul style="list-style-type: none">Developed enterprise (50k+ LOC) real estate management software (AngularJS v1). | |
| | Kioos | São Paulo, Brazil |
| | Senior Software Engineer | May 2013 - Jan. 2014 |
| Projects / Code | <ul style="list-style-type: none">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 |
| | <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. | New York, NY |
| | 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 |
| | <ul style="list-style-type: none">Machine Learning for kdb+/q | |
| | Kaggle | kaggle.com/juanlasheras |
| Education | <ul style="list-style-type: none">Applied Machine Learning competitions. | |
| | Sample Code | github.com/jlas/sample-code |
| | <ul style="list-style-type: none">Small code samples: Project Euler, HackerRank, and more. | |
| | Quirky | github.com/jlas/quirky |
| | <ul style="list-style-type: none">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) |
| Education | 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>