

# Juan Lasheras

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

Generalist engineer and creative problem solver with 16 years of industry experience

Skills	<b>Proficient</b>	TypeScript, JS, Python, C, HTML5/CSS3, SQL, Git/SVN/hg, AWS/GCP/Azure, GNU/Linux
	<b>Knowledgeable</b>	Rust, kdb+/q, Java, C++, AI/CV/ML, Lisp, PHP, NoSQL, Realtime, Windows, Agile
Work	<b>Retool</b> (YC Top Startup #26 2023)	San Francisco, CA
	Staff Software Engineer	2021 - Present
	<ul style="list-style-type: none"><li>Created performance engineering function; made Retool &gt;50% faster.</li><li>Boosted dev productivity by migrating to ViteJS <a href="https://retool.com/blog/vitejs-migration">https://retool.com/blog/vitejs-migration</a></li><li>Contributions to new product lines including RetoolDB, Agents, and Copilot.</li></ul>	
	<b>Standard Cognition</b> (YC Top Startup #33 2019+2020)	San Francisco, CA
	Staff Software Engineer	2017 - 2021
	<ul style="list-style-type: none"><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>	
	<b>U.S. Securities and Exchange Commission (SEC)</b>	New York, NY
	Senior Software Engineer (Contractor)	2015 - 2017
	<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>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>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>kdb+/q, python (pandas, numpy, flask), javascript (es6, react.js)</li></ul>	
	<b>Coffeetheapp</b> (Social Networking Startup)	2015
	<ul style="list-style-type: none"><li>Built professional networking webapp (think LinkedIn) with desktop &amp; mobile responsive design.</li></ul>	
Projects / Code	<b>Lab49</b> (Fintech Consulting)	2014
	<ul style="list-style-type: none"><li>Developed enterprise (50k+ LOC) data-driven real estate management software (AngularJS v1).</li></ul>	
	<b>Kioos</b> (E-commerce Startup)	2013 - 2014
	<ul style="list-style-type: none"><li>First hire. Built MVP in 3 months: gamification solution for popular e-commerce platform Magento.</li></ul>	
	<b>Advanced Simulation Technology, Inc.</b>	2009 - 2013
	<ul style="list-style-type: none"><li>Developed real-time software for MIL and commercial flight simulators.</li></ul>	
	<b>doom.q</b>	github.com/jlas/doom.q
	<ul style="list-style-type: none"><li>Port of Doom game source code to kdb+/q</li></ul>	
	<b>ml.q</b>	github.com/jlas/ml.q
	<ul style="list-style-type: none"><li>Machine Learning for kdb+/q</li></ul>	
Education	<b>Kaggle</b>	github.com/jlas/kaggle
	<ul style="list-style-type: none"><li>Applied Machine Learning competitions.</li></ul>	
	<b>Sample Code</b>	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>	
	<b>Georgia Tech</b>	Online
	M.Sc. Computer Science, Machine Learning specialization	May 2020
	<b>Carnegie Mellon University</b>	Pittsburgh, PA
	B.Sc. Electrical and Computer Engineering, with Honors	May 2009

This document is available at <https://www.juanl.org/resume.pdf>

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