

# Juan Lasheras

(201) 314-6280  
juan.lasheras {at} gmail {dot} com  
[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	<a href="#">Retool</a> (YC Top Startup #26 2023)	<i>San Francisco, SF</i>
	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>	
	<a href="#">Standard Cognition</a> (YC Top Startup #33 2019+2020)	<i>San Francisco, SF</i>
	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>	
	<a href="#">U.S. Securities and Exchange Commission (SEC)</a>	<i>New York, NY</i>
	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>	
	<a href="#">Coffeetheapp</a> (Social Networking Startup)	2015
Projects / Code	<ul style="list-style-type: none"><li>Built professional networking webapp (think LinkedIn) with desktop &amp; mobile responsive design.</li></ul>	
	<a href="#">Lab49</a> (Fintech Consulting)	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> (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>	
	<a href="#">Advanced Simulation Technology, Inc.</a>	2009 - 2013
	<ul style="list-style-type: none"><li>Developed real-time software for MIL and commercial flight simulators.</li></ul>	
	<a href="#">doom.q</a>	<a href="https://github.com/jlas/doom.q">github.com/jlas/doom.q</a> 2018 - Present
	<ul style="list-style-type: none"><li>Port of DOOM game source code to kdb+/q</li></ul>	
	<a href="#">ml.q</a>	<a href="https://github.com/jlas/ml.q">github.com/jlas/ml.q</a> 2016 - Present
Education	<ul style="list-style-type: none"><li>Machine Learning for kdb+/q</li></ul>	
	<a href="#">Kaggle</a>	<a href="https://github.com/jlas/kaggle">github.com/jlas/kaggle</a> 2015 - Present
	<ul style="list-style-type: none"><li>Applied Machine Learning competitions.</li></ul>	
	<a href="#">Sample Code</a>	<a href="https://github.com/jlas/sample-code">github.com/jlas/sample-code</a> 2013 - Present
	<ul style="list-style-type: none"><li>Small code samples: <a href="#">Project Euler</a>, <a href="#">HackerRank</a>, and more.</li></ul>	
Education	<a href="#">Georgia Tech</a>	<i>Online</i>
	M.Sc. Computer Science, Machine Learning specialization	May 2020
	<a href="#">Carnegie Mellon University</a>	<i>Pittsburgh, PA</i>
Education	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>