

Juan Lasheras

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juanl.org, github.com/jlas
US Citizen

Generalist engineer and creative problem solver with 16 years industry experience

Skills	Proficient	TypeScript, JS, Python, C, HTML5/CSS3, SQL, Git/SVN/hg, AWS/GCP/Azure, GNU/Linux
	Knowledgeable	Rust, kdb+/q, Java, C++, AI/CV/ML, Lisp, PHP, NoSQL, Realtime, Windows, Agile
Work	Retool (YC Top Startup #26 2023)	<i>San Francisco, SF</i>
	Staff Software Engineer	2021 - Present
	<ul style="list-style-type: none">Created performance engineering function; made Retool >50% faster.Boosted dev productivity by migrating to ViteJS https://retool.com/blog/vitejs-migrationContributions to new product lines including RetoolDB, Agents, and Copilot.	
	Standard Cognition (YC Top Startup #33 2019+2020)	<i>San Francisco, SF</i>
	Staff Software Engineer	2017 - 2021
	<ul style="list-style-type: none">First tech hire. Tech lead for backend team.Contributions across various infra and product teams: perception & mapping, human tracking, product analytics, realtime core, computer vision, site reliability, embedded devices, mobile & frontend.	
	U.S. Securities and Exchange Commission (SEC)	<i>New York, NY</i>
	Senior Software Engineer (Contractor)	2015 - 2017
	<ul style="list-style-type: none">Lead dev for the National Exam Analytics Tool (NEAT).NEAT programmatically analyzes millions of trades to detect fraud.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]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.kdb+/q, python (pandas, numpy, flask), javascript (es6, react.js)	
	Coffeetheapp (Social Networking Startup)	2015
Projects / Code	<ul style="list-style-type: none">Built professional networking webapp (think LinkedIn) with desktop & mobile responsive design.	
	Lab49 (Fintech Consulting)	2014
	<ul style="list-style-type: none">Developed enterprise (50k+ LOC) data-driven real estate management software (AngularJS v1).	
	Kioos (E-commerce Startup)	2013 - 2014
	<ul style="list-style-type: none">First hire. Built MVP in 3 months: gamification solution for popular e-commerce platform Magento.	
	Advanced Simulation Technology, Inc.	2009 - 2013
	<ul style="list-style-type: none">Developed real-time software for MIL and commercial flight simulators.	
	doom.q	github.com/jlas/doom.q 2018 - Present
	<ul style="list-style-type: none">Port of DOOM game source code to kdb+/q	
	ml.q	github.com/jlas/ml.q 2016 - Present
Education	<ul style="list-style-type: none">Machine Learning for kdb+/q	
	Kaggle	github.com/jlas/kaggle 2015 - Present
	<ul style="list-style-type: none">Applied Machine Learning competitions.	
	Sample Code	github.com/jlas/sample-code 2013 - Present
	<ul style="list-style-type: none">Small code samples: Project Euler, HackerRank, and more.	
Education	Georgia Tech	<i>Online</i>
	M.Sc. Computer Science, Machine Learning specialization	May 2020
	Carnegie Mellon University	<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>