Juan Lasheras

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juanl.org, github.com/jlas
US Citizen

Generalist engineer and creative problem solver with 16 years of 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)
Staff Software Engineer — *San Francisco, CA* — 2021 - Present
- Created performance engineering function; made Retool >50% faster.
- Boosted dev productivity by migrating to ViteJS https://retool.com/blog/vitejs-migration
- Contributions to new product lines including RetoolDB, Agents, and Copilot.

Standard Cognition (YC Top Startup #33 2019+2020)
Staff Software Engineer — *San Francisco, CA* — 2017 - 2021
- 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)
Senior Software Engineer (Contractor) — *New York, NY* — 2015 - 2017
- 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
- Built professional networking webapp (think LinkedIn) with desktop & mobile responsive design.

Lab49 (Fintech Consulting) — 2014
- Developed enterprise (50k+ LOC) data-driven real estate management software (AngularJS v1).

Kioos (E-commerce Startup) — 2013 - 2014
- First hire. Built MVP in 3 months: gamification solution for popular e-commerce platform Magento.

Advanced Simulation Technology, Inc. — 2009 - 2013
- Developed real-time software for MIL and commercial flight simulators.

Projects / Code

doom.q
github.com/jlas/doom.q — 2018 - Present
- Port of Doom game source code to kdb+/q

ml.q
github.com/jlas/ml.q — 2016 - Present
- Machine Learning for kdb+/q

Kaggle
github.com/jlas/kaggle — 2015 - Present
- Applied Machine Learning competitions.

Sample Code
github.com/jlas/sample-code — 2013 - Present
- Small code samples: Project Euler, HackerRank, and more.

Education

Georgia Tech
M.Sc. Computer Science, Machine Learning specialization — *Online* — May 2020

Carnegie Mellon University
B.Sc. Electrical and Computer Engineering, with Honors — *Pittsburgh, PA* — 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