Alejandro Ruiz

Education
Massachusetts Institute of Technology (2011): Physics. Graduated in 3 years.

Work Experience
Aulera Authentication (July 2018 -): Cofounder. Made a physical product and accompanying web systems to let end consumers authenticate physical goods with brands' apps.

Eastern Labs/Numerated Growth Technologies (February 2016 - May 2018): Senior Software Engineer on Data Team. Focus on turning datateam prototypes into production services, from prototype to deployment. Responsibilities include: Technical lead on several codebases (contributing code, reviewing PRs, testing, mentoring junior engineers), ops for data loading and production web services, data analysis, ETL jobs.

Pluralsight/Smarterer (November 2014 - February 2016): Full Stack Engineer, transitioning to Data Engineer. Started at Smarterer (a startup) as full-stack engineer on a heavily algorithmic product. Transitioned to data engineering post-acquisition, with a focus on data-driven production-ready services. Python, Flask, Rabbit, MySQL, HBase, Redis, R

Ornithopter Technologies (November 2013 - November 2014): Cofounder. RDBMS-based tool for organization. Architected and developed a full-scale web application with cofounder, extremely similar to airtable.com. Python/Django, Postgres, JS/Backbone

Wayfair (October 2012 - November 2013): Search and Recommendations Team. Back-end of the search and recommendations platforms, including projects involving search-by-color and personalization. Python, MSSQL, SOLR, Hive, Redis

Independent Software Consulting (February 2012 - October 2012): Built data analytics tools for clients, e.g. tool to find heartbeat inflection point cardiology researchers. Python, Javascript, LaTeX

Intrepid Development [Intern] (November 2011 - February 2012): Built iphone apps with 15-person dev team. Objective-C, XCode, Balsamiq

Large Hadron Collider - CMS Detector (January 2010-August 2010): Undergraduate Research, focused on cross section measurements of Z boson decays using Monte Carlo techniques. C++, ROOT, FORTRAN (unfortunately)

Technologies
Software Languages: Python, SQL, Javascript, R, HTML/CSS, PHP, bash, and very rusty with C++, Objective C, MATLAB

Databases: Postgres, MySQL, MSSQL, NoSql (mostly Mongo)

Data: Hive, SOLR, ElasticSearch, OpenGL, and to a lesser extent, Hadoop, Impala, Spark

Ops: Linux (Ubuntu and RHEL), Fabric, Nginx, Wsgi (gunicorn and uwsgi), Cron.

Miscellaneous Other: Emacs, Pandas/Numpy, RabbitMQ, Celery, Redis, ReactJS, LaTeX, JQuery, Flask, Django, SQLAlchemy, SASS, Beautif

Skills and Roles
Front End: Not my forte, but comfortable building interactive, JS-heavy front-end pages. Jquery, react, angular, backbone.

Back End: Experienced in architecting scalable systems and building back-end web applications and APIs.

Science: Experienced in building and implementing statistical models, experimental design, data analysis, web scraping.

Ops: Comfortable deploying production web services with nginx, ETL operations, basic networking and AWS.

Non-tech
DIY: Avid DIYer. Renovate houses, rebuild engine, grow roses.

Music: Play Trumpet, Tuba, Baritone sax, clarinet. Love a good funk jam.