Jianchao (Jesse) Yang

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Experienced Front End / Data Science Engineer obsessed with crafting powerful, sensible, user-centric data products

EXPERIENCE

Data Scientist II - Zillow Group, Seattle, WA

Mar 2019 - Present

- Data Visualization built a consolidated data mart for all major metrics of the New Construction business, designed and developed a comprehensive Baseline Performance dashboard; administered a pilot trial for Redash and Superset.
- · Causal Inference developed an end-to-end multilabel image classifier with 96% accuracy to support the analysis of causal relationship between image/listing quality and search CTR, identified key areas of improvements that drove future research.
- · Search Ranking implemented, analyzed and A/B tested different data imputation strategies to address bias in home recommendation algorithms, boosted discoverability of new construction homes by 12%.
- 3rd-party Data Ingestion created Java-based Hive UDFs and Airflow jobs to ingest terabytes of Google Ad Manager data every day, engineered foundational aggregation tables, assembled accompanying diagnostic and monitoring dashboards.

Data Scientist Intern - Zillow Group, Seattle, WA

May 2018 - Aug 2018

- · Migrated the backend of a client-facing data product from on-premise MS SQL/R scripts to Airflow DAGs running on Hive, Spark, and AWS EMR and S3 Data Lake, reduced daily job runtime from 8 hours to 30 minutes.
- · Collaborated with PMs to define KPIs for Rental Management Platform, designed and built a Tableau dashboard that incorporated 12 user and listing attributes from 5 different sources, as both filters and segmentation dimensions.

Quantitative Developer Co-op - GMO LLC, Boston, MA

Jan 2018 - Apr 2018

- · Created reusable and flexible MATLAB modules for sophisticated financial data visualization
- · Refactored code, consolidated ETL pipelines, streamlined job automation workflows for financial forecasting models, improved usability and stability of Asset Allocation portfolio management tools

Research Assistant - Boston Area Research Initiative, Northeastern University

Jan 2017 - Dec 2018

- · Collected, processed, and conducted geographical and temporal analyses on census and government administrative datasets
- · Created an interactive map with Vue.js and Leaftlet.js to facilitate data exploration
- · Implemented and designed methods to evaluate a novel iterative school assignment algorithm for Boston Public Schools

Client Side Developer - Booking.com B.V. , Amsterdam, Netherlands

Sep 2014 - Aug 2016

- Executed 100+ A/B testing experiments aimed at optimizing booking conversions on both desktop and mobile web
- · Led usability testing sessions, gathering and translating user comments into testable experiment ideas

Full Stack Software Engineer (Part-time) - Curiosity China, Beijing, China

Dec 2012 - May 2014

· Architected and developed a CRM system with PostgreSQL, Node.js, Backbone.js, and visualizations built on NVD3

Front End Engineer - Douban Inc. (Sequoa-backed Startup), Beijing, China

Nov 2011 - Mar 2014

Front End Engineer - Taobao.com, Alibaba Group, Hangzhou, China

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EDUCATION

Northeastern University, Khoury College of Computer Sciences, Boston, MA

2016 - 2018

Master of Science in Data Science

Sichuan Agricultural University, Ya'an, China

2006 - 2010

Bachelor of Engineering in Wood Science and Engineering (Interior and Furniture Design)

SKILLS

Languages Tools

JavaScript, HTML, CSS/Sass/Less, Node.js, Python, R, SQL, MySQL, MATLAB, PHP, JSON, XML, Bash, Java, C Frameworks React, Vue, Backbone, jQuery, GraphQL, Flask, SQLAlchemy, Next.js, Webpack, Gulp.js, Pandas, Scikit-learn, Tidyr Linux, Git, Airflow, Docker, Hive, Spark, Presto, Redis, MongoDB, AWS EC2, AWS S3, AWS EMR, AWS SageMaker

Data Vis D3.js, Leaftlet.js, Vega, Mapbox, Google Maps, Matplotlib, Ggplot, Plotly, NetworkX, Tableau, Mode, Vega, Sigma.js

OTHER ACHIEVEMENTS

Speaker, PWA in Small Steps - PWA Dev Summit 2016, Amsterdam, NL Translator, Chaos Monkey - translated the 500-page book from English to Chinese Open Source Contributor - contributing to various open source projects, including Redash, doWhy, etc. Jun 2016

2016 - 2018

2010 - Present