Joe Rickard

joerickard.io
joerickard@pm.me

(847) 909-0389
(He/Him)

EDUCATION

University of Colorado, Boulder, CO
Bachelors in Computer Science, December 2019
Notable Courses: Performant Linear Algebra, Concurrent Programming, Database Systems, Machine Learning, Data Analysis Algorithms, Data Statistics

EXPERIENCE

TradeWeb January 2020 - Present
Java Developer New York, NY
I hold a broad SRE role at Tradeweb, with a focus on system reliability and automation. I have worked to automate error handling in client/partner data ingestion, improving reliability and reducing the load for on-call staff. I have also worked to stabilize development and testing environments, reducing blockers for testing and development. My small team also managed production releases and fixes.

Enzoic August 2018 - December 2019
Technical Intern Boulder, CO
My work at Enzoic involved maintenance and research for a credential integrity verification API. A portion of this role was indexing millions of new credentials leaked online each day. This data was stored in a large MongoDB database, totaling over 8 billion unique credentials. This database was engineered with hashed table relations, ensuring the data could be efficiently queried and was secure at rest.

Deep Root Analytics May 2018
Statistical Analysis Intern Washington, DC
At Deep Root I worked independently to improve the demographic targeting abilities for television ad buys. I made use of unsupervised machine learning techniques to identify behavioral patterns of target groups and to recommend time slots targeting a given group. This led to an increase in target group impressions on my test data set and was used in production. I developed data ingestion infrastructure with supporting documentation to be used in improving future projects.

The Trade Desk May 2017
Technical Intern Boulder, CO
At The Trade Desk I worked on an embedded tracking pixel which collected unique data from users' browsers. This work required extreme attention to edge case handling, as most of the errors my code resolved stemmed from rare conflicts with partner servers. My particular contribution improved the worst-case performance, allowing for customer data collection without compromising content load times.

Awards

First Place, AISC ML bias identification
AISC held a competition to identify and explain bias in ML models. This was judged by Fairly.ai. I directed a small team over 2 months to a first place award using Python and the Flask framework to analyze model topography and provide an output dashboard.

Second Place, HackCU 48 hour hackathon
My team of three was awarded second place by judges from Twitter for a semantic analysis interface. The interface allowed a user to gauge public reaction to events in real time. This was done with Python and the Flask framework.

Languages: Python, Bash, Scala, Java, MySQL, Oracle SQL
Github: /joerickard