

Roland Zhou

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SKILLS

PROGRAMMING

Python • Javascript • Bash •
Go • Java • HTML • CSS

TOOLS AND PLATFORMS

Cloud
AWS • GCP • Heroku
Developer Workflow
Git • Docker • Jupyter Notebooks
Terraform • Ansible • Packer
TravisCI
Databases / Systems
Postgres • Elasticsearch

EDUCATION

COLUMBIA UNIVERSITY

MS IN COMPUTER SCIENCE
Grad. Dec. 2018 | New York, NY
Conc. in Machine Learning

SUNY BINGHAMTON

BS IN FINANCE AND MATHEMATICS
Grad. May 2016 | Binghamton, NY
Minor in Information Systems
Cum. GPA: 3.8 / 4.0
Major GPA: 3.9 / 4.0

LINKS

Github:// [rz1993](#)
LinkedIn:// [rolandzhou](#)

COURSEWORK

GRADUATE

Advanced Machine Learning
Natural Language Processing
Distributed Systems for Data Science
Database Systems and Implementations
Bayesian Deep Learning

EXPERIENCE

FACTSET RESEARCH SYSTEMS | MACHINE LEARNING ENGINEER

Jan. 2019 - Present | New York, NY

- Developed and productionized an Entity Recognition API using AWS Sagemaker and PyTorch in order to enhance content metadata
- Scaled the API to support a new client product as well as two of FactSet's core content pipelines which process thousands of documents a day
- Developed a Learn-To-Rank model to improve relevance ranking for DocSearch, FactSet's nascent search engine across all content sets
- Productionized the ranking model and set up periodic retraining via implicit feedback, increasing usage of the service from 3,000 to 10,000 monthly users and increasing CTR by 40%.

FACTSET RESEARCH SYSTEMS | MACHINE LEARNING INTERN

May 2018 - Aug 2018 | New York, NY

- Researched and prototyped a document retrieval system to improve consultant access to the company's internal tickets and issues when assisting clients
- Experimented with various document ranking methods, leading to a successful proof of concept over a search space of 300,000 CRM documents
- Deployed model as an internal API to rerank Elasticsearch results

SUNY BINGHAMTON STUDENT AFFAIRS | DATA ANALYSIS INTERN

Jan 2016 - May 2016 | Binghamton, NY

- Created scripts to automate data aggregation and email alerts for student orgs
- Conducted statistical analysis to infer factors and indicators of student churn

UNITED HEALTH HOSPITALS | SDE INTERN

Sep 2015 - Dec 2015 | Binghamton, NY

- Developed a patient management UI to automate rehab monitoring and data entry after cardiac surgery
- Gathered requirements and created user stories by meeting with nurses
- Developed the UI in HTML, JSS and connected it with MSSQL Server using PHP

PERSONAL PROJECTS

FINANCIAL NEWS SENTIMENT ANALYSIS

Jan 2018 - March 2018 | New York, NY

Developed a web application for tracking news events for a portfolio of companies and classifying each article's sentiment. Created a batch scraping pipeline using AWS Lambda, S3 and SQS. Deployed it on AWS EC2 instances until exhaustion of Free Tier credits.

KAGGLE KERNELS AND COMPETITIONS

Jan 2017 - Ongoing | New York, NY

Authored several Python notebooks for classification and regression problems such as churn propensity and price prediction. Placed in top 20% of public leaderboard of Quora's duplicate questions competition using a pretrained deep learning model.

AWARDS

2016 Paul Grier Memorial Student Award in Finance
2015 2nd Reeves Ellington Annual Case Competition, SUNY Binghamton