Rov N. Wu

M.S.E. IN DATA SCIENCE @ UNIVERSITY OF PENNSYLVANIA

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n github.com/roynwu

EDUCATION

Philadelphia, PA

University of Pennsylvania

Expected May 2021

MASTER OF SCIENCE IN ENGINEERING IN DATA SCIENCE, CONCENTRATION IN COMPUTER VISION

- · Courses: Algorithms, Big Data, Machine Learning, Deep Learning, Computer Vision, Artificial Intelligence
- · Leadership: Data Science General Assembly, Penn Data Science Group Board (Partnership Team)

New York, NY

New York University

Aug 2013 - May 2017

BACHELOR OF ARTS IN MATHEMATICS AND ECONOMICS

· Honors: Dean's List, University Honors Scholar (Founders' Day Award)

Experience

Boulder, CO

The Trade Desk

Jun 2020 - Aug 2020

Data Science Intern - Performance Automation Team

- · Worked with engineers to productionize and scale advertising campaign optimization algorithms
- · Developed a new algorithm that supports lookalike modeling for a custom optimization feature that allows users to include multiple conversion pixels [Spark-Scala] [SQL] [AWS (EMR, S3)]
- · Owned the design and implementation of a new predictive model for the AI recommendation tool; increased ad group performance by 45% and reduced error by 58% on average across all KPI goals [Python] [SQL]

New York, NY Jun 2018 - Jul 2019

Vitech Systems Group

Solutions Analyst Jun 2017 - May 2018

Associate Solutions Analyst

- · Served as main liaison between engineering team and clients on agile-based software development projects
- · Managed server and client databases for performing data analysis and resolving data issues [SQL]
- · Collaborated with tech leads to design extensive workflow processes and write new software design documents, advanced functional specifications, and enhancement contracts
- · Delivered optimal software solutions via in-depth quality assurance of modifications and defect fixes
- · Mentored new hires and led training seminars covering domain knowledge and best industry practices

New York, NY

Haver Analytics

Sep 2016 - May 2017

ECONOMIC RESEARCH INTERN

- · Compiled, managed, and quality-assured databases covering macroeconomic indicators of Asia-Pacific markets and delivered data upon each release to clients [DOS]
- · Performed statistical analysis on time series data to provide insights into historical market trends
- · Added new time series data to server and client databases and automated data extraction/formatting

PROJECTS (MORE > https://github.com/roynwu)

Academic Research Jan 2020 - May 2020

Headline Writer: Abstractive Text Summarization with Attention and Pointer-Generator Network

HENGLIN WU, RUILIN ZHAO, ROY WU, CHENYUAN LI

[paper] [code] [blog] [youtube]

- · Developed an advanced Seq2Seq model that automates generation of news article summary headlines
- · Achieved BLEU score of 0.075, outperforming main reference paper from 2015 by 0.065

Academic Research Jan 2020 - May 2020

Artificial Anime Character Design: An Application of Generative Adversarial Networks (GANs)

ROY WU, RILEY XU, TIANHAO LU

[paper] [code] [blog]

- · Built various GANs with improved training techniques to create artificial face designs of anime characters
- · Achieved FID scores of 64.45 and 44.70 for DCGAN and StyleGAN implementations respectively

SKILLS

Programming

Python \cdot SQL \cdot Scala \cdot Java

ML/DL Libraries

 $PyTorch \cdot Scikit-Learn \cdot NumPy \cdot Pandas \cdot Matplotlib$

Technologies

Apache Spark \cdot AWS \cdot Git \cdot LATEX

Others

Actuarial Exams: SOA Exam P/CAS Exam 1 · Languages: Chinese · Video: Final Cut Pro, HitFilm