Roy N. Wu

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

https://roynwu.github.io

□ +1 (973) 901-1028☑ wuroy@seas.upenn.edu

in linkedin.com/in/roynwu

♠ github.com/roynwu

EDUCATION

${\bf Philadelphia,\ PA}$

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)]
- \bullet 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

Jun 2018 - Jul 2019 Jun 2017 - May 2018

Solutions Analyst

Associate Solutions Analyst

- · Served as main liaison between engineering team and clients on agile-based software development projects
- · Managed server & 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
- · Added new time series data to server & client databases and automated data extraction/formatting [DOS]

New York, NY

PrimeAlpha

Oct 2014 - Feb 2015

PROJECT MANAGER INTERN

- · Managed various projects, such as conducting investor due diligence and developing marketing campaigns
- · Oversaw and performed detailed software functionality, usability, and interface testing activities

$PROJECTS \hspace{0.2cm} (\texttt{more} > \texttt{https://github.com/roynwu})$

NLP 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

Computer Vision 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

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