Sicong Zhao

LinkedIn.com/in/zhaosicong/
GitHub.com/RyC37
sicong.zhao@duke.edu, +1 (984) 209-6936

EDUCATION

Duke University
M.S. Interdisciplinary Data Science, GPA 3.66/4.0

May 2020
Durham, NC

Huazhong University of Science & Technology
B.E. Electronic Science and Technology

Jun 2013
Wuhan, China

EXPERIENCE

Data Science Intern - Duke Health

06/2019 - 05/2020
Durham, NC

- Collaborated with Duke University Hospital to conduct mortality risk evaluation of cardiac decompensation patients.
- Converted rules in *"Hospital Toolkit for Adult Sepsis Surveillance" by CDC* into Python algorithms.

Product Manager - Aibee

12/2017 - 08/2018
Beijing, China

- Designed and launched AI-driven customer insight products as the first PM.
- Cooperated with 3 $2.7-$35B clients and integrated solutions into clients' BI systems.
- Best Employee Award in 2018 (1/31)

Product Cofounder - Zhonggua Technology

03/2017 - 12/2017
Beijing, China

- Established a freelancer platform that connected top companies' employees and startups.
- Acquired by Aibee on Dec 2017.

Director of Mobile Platforms - Genetalks Biotechnology

02/2016 - 02/2017
Beijing, China

Digitalized Genetalks' sales channel and established an app for post-sales service.

Senior Product Manager/Product Manager - Baidu

07/2013 - 12/2015
Beijing, China

- Led design for FaceYou App. Acquired 5M users in Dec 2015, ranked 3rd in AppStore China.
- Initiated innovative AI assistant project BaiduEye, coordinated product design & development.
- Outstanding Employee Award in 2015 (1/~150)

PROJECTS

Face Generation and Interpolation: Trained a face generator using a Generative Adversarial Network architecture (BEGAN) and celebrity face dataset. Also conducted an interpolation analysis (generate faces gradual change between 2 destination faces) which showed an understanding of the face structure has been developed in generator. GitHub

Emotional States: A research project about if emotional states can be inferred from wearable activity sensor data. Trained a CatBoost models on Fitbit data alone with personality, physical health, and demographic data collected from 153 participants. Model performance is precision: 0.595, recall: 0.877, F1: 0.75. GitHub.

Friendship Inference based on Network Analysis: Studied how personality traits (Big Five) relate to friendship. Used a network model and linear regression to uncover a significant negative correlation between the personality trait agreeableness and friendship rating (p-val=0.017). GitHub

Seinfeld TV Script Generation: A text generation model using LSTM and Word2Vec, trained on Seinfeld TV script, then generate new script based on a given starting text sequence. GitHub

More data science projects can be found in GitHub, other projects in Portfolio: **www.SicongZhao.com**

AWARD & PATENT

Best Use of Outside Data @DataFest 2109 (Duke)

04/19

LED Light visual feedback help users locate the direction of head-mount devices' camera

WO2016176950A1

WRITE-UPS

Demystify Transposed Convolutional Layers by Visualization and PyTorch

Link

Value Investing in Python

Link

Insights of Google Employees from Glassdoor Data

Link

SKILLS

Tech: Deep Learning (FNN, CNN, RNN, GAN, Auto-encoder), Reinforcement Learning, Machine Learning, Stochastic Processes, Bayesian Analysis, Statistical Modeling, Text Analysis, Python, R, Tableau, SQL

Design - Data Visualization (Tableau, Keynote), Interface Design (Photoshop, Sketch, AI), 3D Design (Cinema 4D)