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EDUCATION

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

Huazhong University of Science & Technology

B.E. Electronic Science and Technology

Jun 2013 Wuhan, China

Durham, NC

May 2020

EXPERIENCE

Data Science Intern - Duke Health

06/2019 - 05/2020

Collaborated with Duke University Hospital to conduct mortality risk evaluation of cardiac decompensation patients.

Durham, NC

Converted rules in "Hospital Toolkit for Adult Sepsis Surveillance" by CDC into Python algorithms.

Product Manager - Aibee

12/2017 - 08/2018

Designed and launched AI-driven customer insight products as the first PM.

Beijing, China

Cooperated with 3 \$2.7-\$35B clients and integrated solutions into clients' BI system.

• Best Employee Award in 2018 (1/31)

Product Cofounder - Zhonggua Technology

03/2017 - 12/2017

Established a freelancer platform that connected top companies' employees and startups.

Beijing, China

Acquired by Aibee in Dec 2017.

Director of Mobile Platforms - Genetalks Biotechnology

02/2016 - 02/2017

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

Beijing, China

Senior Product Manager - Baidu

07/2013 - 12/2015

Led product 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.

Beijing, China

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. <u>GitHub</u>.

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. <u>GitHub</u>

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

<u>Link</u>

Value Investing in Python
Insights of Google Employees from Glassdoor Data

<u>Link</u> <u>Link</u>

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)