Sicong Zhao

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SUMMARY

Creator and researcher with 5 years of product design and management experience, and successful start-up practice. Proficient in deep learning, machine learning, statistical modeling, design thinking, product management, and cross-functional communication. I am devoted to making the world a better place.

EDUCATION

Duke University   08/2018 - 05/2020
M.S. Interdisciplinary Data Science, GPA 3.7/4.0   Durham, NC

Huazhong University of Science & Technology   09/2009 - 06/2013
B.E. Electronic Science and Technology   Wuhan

EXPERIENCE

Etsy - Incoming Computer Vision Intern   07/2020 - 10/2020

Duke Health - Data Science Intern   06/2019 - 05/2020
- Collaborated with Duke University Hospital (DUH) to conduct mortality risk evaluation of cardiac decompensation patients. Categorized patients into 63 categories and evaluated related death rates. The results assisted DUH better allocate medical resources.   Durham, NC
- Converted rules in *"Hospital Toolkit for Adult Sepsis Surveillance" by CDC* into Python algorithms to support the Sepsis prediction project.

Aibee - Product Manager   12/2017 - 08/2018
- Designed and launched AI-driven customer insight products as the first PM.   Beijing
- Cooperated with 3 $2.7-$35B clients and integrated solutions into clients' BI systems.
- Best Employee Award in 2018.

Zhonggua Technology - Product Cofounder   03/2017 - 12/2017
- Established a freelancer platform that connected top companies' employees and startups.   Beijing
- Acquired by Aibee on Dec 2017.

Genetalks - Director of Mobile Platforms   02/2016 - 02/2017
Digitalized Genetalks' sales channel and established an app for post-sales service of genetic testing kit.   Beijing

Baidu Research - Senior Product Manager / Product Manager   07/2013 - 12/2015
- Started as Product Manager, and got promoted in 9 months in Apr. 2014.   Beijing
- 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.

PROJECTS

Generative Design for GUI (graphical user interface): The end-goal is to enable everyone to be able to design. Planning to build a generator that creates GUIs based on constraints like elements and style, along with discriminators that evaluate different aspects of the generated designs. Currently replicating LayoutGAN paper, and will further explore ways (Pix2Pix + BEGAN) to convert a wireframe to GUI.

User Review Understanding: Aimed to help product owners to understand user needs from a large number of user reviews. Built an algorithm that converted user reviews into a list of pros and cons with corresponding counts. Used sentence embedding algorithm InferSent and clustering algorithms including agglomerative clustering.

Emotion Inference with Wearable Data: 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.

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.

AWARD

Best Use of Outside Data Award at Duke DataFest 2019   04/2019

SKILLS

Skills: ·Deep Learning ·Machine Learning ·Reinforcement Learning, ·Stochastic Processes ·Statistical Modeling
Tools: ·PyTorch ·Python (Numpy/Pandas) ·sklearn ·CatBoost ·SQL ·Tableau ·AWS ·R ·Keynote ·PhotoShop ·Sketch