Parker Pan

Email: <u>zhiyuan.pan1@outlook.com</u> | Telephone: (1)2134004015 | Address: Los Angeles, CA, United States | LinkedIn: linkedin.com/in/zhiyuan-pan | Web: parker-pan.github.io

EDUCATION BACKGROUND

University of Southern California | MSc Analytics (Data)

Sep 2022 - Dec 2023

- I am studying a 2-year MSc course and looking for Data/ML Engineer roles from Fall 2023
- <u>Key modules:</u> Data Management/Mining/Analytics/Visualization, Machine Learning,
 Deep Learning, Optimization Methods, Data Analytics Consulting

University of Liverpool | BSc (Hons) Mathematical Finance

Sep 2018 – Jul 2022

• <u>Key modules:</u> Financial Mathematics, Graph Theory, Risk Theory, Stochastic Modelling & Theory in Data Science, Applied Probability, Actuarial, Econometrics

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, HTML, Swift

Databases & Cloud Technologies: MySQL, Snowflake, AWS, GCP

Computer Vision Tools: CVAT, CloudCompare, OpenCV, TensorFlow, PyTorch, Keras

Other Data Analytics Tools: Excel, Tableau, MATLAB, Maple

Prototype & Diagram Tools: Axure, Draw.io, Visio

Languages: Chinese(native), English

CORE INTERNSHIP AND PROJECT EXPERIENCE

Polyexplore | ML/Software Engineer - HD Mapping

United States, Jun 2023 – Present

- Utilize OpenCV for processing geographic images and extracted point cloud coordinates, including image denoising/segmentation, line/road mark identification
- Apply transfer learning, adjusting the deep learning models such as LaneNet

Data Management based on Snowflake

Mar 2023 – *Apr* 2023

- Download required logistics company data from AWS and design the data warehouse
- Define, create, and populate the dimension tables. Use SQL for data query

Modeling Earthquake Damage, A DEIVENDATA Competition

Mar 2023 – *Apr* 2023

• After data preparation, leverage SVM/CatBoost/XGBoost to identify key features contributing to earthquake damage, ranking top 2% out of all participants

Analysis of US Second-Hand Car Pricing

Feb 2023 - Mar 2023

• Write EDA report and create Decision-Tree, RF, and MLR model to design a car pricing forecasting system

Research of the Titanic Survivor

Oct 2022 – Nov 2022

 Apply KNN/SVC/RF/GB/MLP/Logistic Regression methods to modelling and analysing Titanic surviving passengers of different ages/classes/gender

Binary Animals Image Identification and Classification

Feb 2021 – May 2021

Utilize the Hard/Soft SVM to recognize and classify thousands of animal pictures by MATLAB

OTHER PRODUCT MANAGEMENT EXPERIENCE

Accenture | Analyst in Fintech Consulting Dept

China. Jun 2021 - Oct 2021

- Mapping out current insurance business and operation system at CPIC using Visio flow chart
- Complete BRD/FRD for integrating insurance sales businesses and
- Design prototype of purchase, query, and task assignment systems using the Axure.

ByteDance | Product Operation Manager (Dongchedi App)

Remote. Feb 2021 - Mar 2021

- Write BRD/FRD for app simplification, fuzzy search design, and AI recommendation model
- Create a prototype design of the app's homepage and shopping page in a new version using Axure
- Quantify customer acquisition cost, retention rate, and consumer satisfaction

Akmii | Product Manager - Design&Test (Yeeflow Software)

China, Dec 2019 - Feb 2020

- Assist in web front-end development and logic function testing of Swire Group
- Help the AIIB design and test the investment process management and daily operation platform