Qianyi Sha

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EDUCATION

University of Washington, Seattle   *Sep. 2021 - Expected Dec. 2023*
Master of Science in Electrical & Computer Engineering   **GPA: 3.87/4.0**
University of California, Irvine   *Sep. 2016– Dec. 2020*
Bachelors of Science in Computer Science & Engineering, 3 times Dean's honor listed

SKILLS

Coding: Python(Fluent), MySQL(Fluent), C/C++, Java, HTML, CSS, JavaScript
Frameworks and Libraries: React.js, Django, Scikit-Learn, PyTorch, Tensorflow, OpenCV
Technical Skills: Data Structure, Git, Algorithms, Computer Vision, Machine Learning, Image
Processing, Object-Oriented Design, Database, Software Development

INTERNSHIPS

Youyuan   *Jan. 2021 – Jun. 2021*
Software and Data Engineer Intern
Beijing, China
- Constructed data pipelines including identifying important data nodes, data cleansing, data collecting and analyzing. The pipeline **processes 100k users generated data daily**.
- Created ML model based on Decision Tree and Logistic Regression to predict user subscription rate, **increase conversion rate by over 10%** by identifying users' key interest points.
- Constructed **statistical metrics** to evaluate service performance, including user group statistics and user behavior analysis.
- Technology used: Python, SQL, jupyter notebook, scikit learn

Lenovo Quality Department   *June. 2018 – Aug. 2018*
Data Analyst Intern
Beijing, China
- Constructed a web crawler to automatically pull client feedback from 3 different e-commerce websites. **Processes hundreds of feedback daily, reducing engineer's efforts by 1hr/day**.
- Constructed a data pipeline to collect, clean, analyze client feedback and assemble post-sale reports.
- Technology used: Python, SQL, Tableau

RELATED PROJECTS

Development of E-commerce website - Personal Project   Apr. 2022 - Present
- Developed the frontend of the website using **React.js**, **React Bootstrap** and **Redux**
- Developed the backend of the website using **Python** with **Django, REST API** and **SQLite**.
- Integrated Paypal API into the payment system.
- Utilized **Git** to perform project management: https://github.com/SHHH9712/shoppy-website

Covid Vaccine Reservation System   *Mar. 2022– Jun. 2022*
- Developed a commend line based vaccination reservation system that servers both patients and vaccination givers.
- Implemente the system using **Python** with pymssql library.
- Utilized Microsoft **Azura cloud platform** to host and manage SQLite database.

Recommendation System   *Jan. 2022– Mar. 2022*
- Implemented a movie **recommendation system** on MovieLens 25M dataset using various structures including: User/Item **Collaborative Filtering**, **Content based search**, **SVD**, **Neural Collaborative filtering**.