

Qianyi Sha

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EDUCATION

University of Washington, Seattle

Master of Science in Electrical & Computer Engineering

Sep. 2021 - Expected Dec. 2023

GPA: 3.87/4.0

University of California, Irvine

Bachelors of Science in Computer Science & Engineering, 3 times Dean's honor listed

Sep. 2016– Dec. 2020

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

- 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, increased 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

- 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 1 hr/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

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 command line based vaccination reservation system that servers both patients and vaccination givers
- Implemented 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**