


Chuxuan Quan

Full Stack Software Engineer | Data Analyst

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EXPERIENCE

LIANGLING M&E EQUIPMENT | PROJECT MANAGEMENT INTERN

Oct 2020 – May 2021 | Shanghai, China

- Performed online research and created 20+ business and technology documents for the BASF Golden Island project.
- Leveraged excellent communication skills in establishing relations to enable productive project management.
- Demonstrated an understanding of data administration, databases, data analysis procedures, management functions.
- Support project execution and control by documenting action items, monitoring budgets, and updating schedules.

SENDO WATER TREATMENT | DATA ANALYST INTERN

May 2020 – Sep 2020 | Changzhou, China

- Overhauled the calculation for water quality analysis on 10+ metrics collected for 800+ records from the water treatment plant.
- Optimized the calculation processing time for water quality analysis by 50% using Python.
- Developed a template for automatic data input and MySQL database to efficiently store historically collected data.
- Decreased cost by 5% from building a supervised machine learning model to optimize water treatment chemical selection.

PROJECTS

SKIMLIT | NATURAL LANGUAGE PROCESSING

Jan 2022 - Mar 2022

- Separated the abstract of the papers into background, objective, methods, and results using the NLP model.
- Trained CNNs and a transfer learning model with pre-trained token, character, and positional embedding on cloud GPU.
- Increased accuracy to 83.2% using tribrid embedding model compared with 72.2% using baseline TF-IDF model.

GITHUB USER SEARCH | WEB APPLICATION

Dec 2021 - Jan 2022

- Built a full-stack web application using React, HTML, and CSS to search GitHub users' information with GitHub API.
- Performed data visualizations with Fusion Charts in analyzing users' repositories, stars, and forks.
- Implemented Auth0 to communicate with other protected resources by exchanging access tokens for authentication.

FURNITURE ONLINE SHOPPING | WEB APPLICATION

Oct 2021 - Dec 2021

- Built an e-commerce web application that provides one-stop furniture shopping based on the Course-API.
- Designed the front-end pages using React and implemented cart, sort items, and checkout functionality.

SKILLS

PROGRAMMING LANGUAGES

Python • SQL • JavaScript • Java • HTML • CSS • R

WEB FRAMES

React • Django • Flask

DATABASE

MongoDB • MySQL • DynamoDB • Redis

CLOUD TECHNOLOGIES

Amazon Web Services (EC2, RDS, Lambda, S3) • Google Cloud

BIG DATA

Apache Hadoop • Apache Spark • Apache Kafka •

DATA ANALYTICS

Pandas • Scikit-Learn • Numpy • TensorFlow • Tableau

EDUCATION

NEW YORK UNIVERSITY

MASTER'S IN MANAGEMENT OF TECHNOLOGY

Sep 2021 - Present | Brooklyn, NY

School of Computing

Cum. GPA: 3.9 / 4.0

SOOCHOW UNIVERSITY

BACHELOR'S IN NEW ENERGY MATERIALS AND DEVICES

Sep 2016 - Jun 2020 | Suzhou, China

School of Computing

Cum. GPA: 3.6 / 4.0

CERTIFICATIONS

AWS Certified Cloud Practitioner