

Jiacheng Guo

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Education

University of Illinois at Urbana-Champaign

- Master's Degree, Computer Science GPA: 4.0/4.0 08/2020-Expected 12/2021
- Master's Degree, Civil Engineering GPA: 3.80/4.0 08/2017-08/2020

Southwest Jiaotong University

- Bachelor's Degree, Civil Engineering 09/2014-06/2017

Technical Skills

Programming Languages: Python, Java, C++, JavaScript, HTML, CSS, SQL

Frameworks/Technologies: Python Flask, Django, Tomcat, Spring, React.js, D3.js, Apache Spark, Hadoop, Google Cloud, AWS, MongoDB, Snowflake, Apache Airflow, Fivetran, Android, Linux

Professional Experience

Mount Sinai Health System

New York, NY

Associate Researcher/Data Engineer

10/2020-present

- Built an advanced 3D imaging data pipeline for processing healthcare data(mouse and human brain)
- Implemented functions like image projection and visualization for quality control
- Integrated algorithms for destriping(pystripe) and stitching(TeraStitcher) image data, improved productivity by 90%
- Developed and maintained laboratory database system to store data by petabyte using NAS

Autodesk

San Francisco, CA

Software Data Engineering Intern

05/2021-08/2021

- Built ETL data pipelines for Autodesk CES survey data to Journey Explorer dashboard
- Automated process by using AWS services like EC2, Lambda, S3, Glue and improved productivity by 80%
- Implemented Sentiment Analysis Engine to detect customer reviews
- Used Snowflake as backend data warehouse and built data models for future analytics purposes

University of Illinois at Urbana-Champaign

Champaign, IL

Course Assistance- CS 173 Discrete Structures

08/2019-05/2020

- Held office hours and discussion section to explain theoretical algorithms and data structures

Projects

Job Recommendation Engine

01/2021-04/2021

- Designed and implemented an interactive web application for users to search and apply available job positions.
- Created RESTful APIs using Java servlets to handle HTTP requests and responses
- Explored multiple recommendation algorithms and utilized extracted keywords from MonkeyLearn API to implement content-based algorithm
- Used MySQL database on Amazon RDS to store job descriptions using Github API
- Deployed the service to AWS EC2 for better performance

Milk-tea Explorer

08/2020-12/2020

- Developed a simple web application to help people find their favorite drinks in Champaign-Urbana area
- Scraped real boba drinks data from Google and Yelp API across C-U region
- Built tools using React.js (client-side) & Python Flask (server-side)
- Stored milk-tea shop data in relational database MySQL and customers review data in non-relational database MongoDB

Coursework

Data Structures and Algorithms, Applied Linear Algebra, Computational Photography, Data Mining, Database Systems, Text Information System, Applied Machine Learning, Software Engineering, Practical Statistical Learning, Theory & Practice of Data Cleaning, Foundations of Data Curation