

Jack Zhao

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EDUCATION

University of Texas at Austin

Austin, TX

Bachelor of Science, Electrical and Computer Engineering

December 2024

Data Science Lab, Linear Algebra, Algorithms, Software Engineering Lab, Software Testing, Program Analysis

EXPERIENCE

Technology Risk Summer Analyst

June 2024 – August 2024

Wells Fargo – Chief Operating Office

Charlotte, NC

- Provided strategic risk management consulting, aiding the chief technology office (CTO) in progressing corrective actions and improving 3 weak controls into effective ones
- Collaborated with a software engineering team to create an application that resolved 2 corrective actions and automated the detection of application drift for 646 apps
- Executed a 3-day functional exercise that tested the recovery time objective and processes of 246 pivotal cloud applications when a data center goes down, ensuring effective business continuity and minimal business impact

Management Consultant Intern

May 2023 – August 2023

Pariveda

Houston, TX

- Architected a web app using AWS services (**Cognito, DynamoDB, Lambdas**) and **TypeScript/REACT** to scale our clients capabilities in serving 16,000 end users
- Facilitated workshops that defined client aspirations, where to play & how to win strategy, and future outcomes they want to realize by utilizing design thinking exercises and frameworks such as SWOT analysis
- Coordinated weekly story refinements, daily stand-ups, and monthly sprint demos and reviews to ensure customer satisfaction and software developer alignment

Planning and Decision Science Co-Op

May 2022 – December 2022

ExxonMobil - Global Projects

Spring, TX

- Collaborated with the plan and budget coordinator to digitally transform the annual planning process responsible for \$20+ billion dollars worth of capital, automating data analysis from 7 data lakes
- Furthered a Python script that improved economic scenario analysis efficiency by 10x, resulting in faster and more accurate data analysis than the alternative tool of excel
- Streamlined the data flow for 3815 wells and 247 unique facilities in the Permian leading to the savings of 5 FTE
- Built a project management app responsible for tracking the progression and status of 50+ projects and 12+ employees, improving communication for team meetings and leadership reports (still in use)
- Executed design thinking workshops that identified employee pain points caused by siloed data and business efforts resulting in the development of a python script and management tool

Business Analyst Co-Op

January 2022 – May 2022

Charles River Laboratories

Wilmington, MA

- Managed the decision making process for choosing a SaaS provider through competitive product analysis
- Developed 50+ user stories to consolidate software engineers efforts with the needs of 6 different lab tech roles

PASSION PROJECTS

Book Recommendation System | *Data Science Project*

Summer 2024

- Cleaned and preprocessed dataset containing 1M+ book ratings, performing data imputation, normalization, and exploratory analysis using Python (Pandas, NumPy)
- Implemented collaborative filtering models, including matrix factorization (SVD) and k-nearest neighbors (KNN), achieving a baseline recommendation accuracy with an RMSE of 0.88

Impact Corp - Graduate Course | *Consulting Team Lead*

Fall 2023 - Spring 2024

- Led the development of a project scope of work, identifying the root-problem and outcomes needed to address it
- Designed a 5-year road-map that enables sustainable growth while expanding core business into 15 locations

SKILLS & INTERESTS

Technical Skills: Java, JavaScript, C/C++, React, Python, Tensorflow, Numpy, SQL, PyTorch, MongoDB, PowerBI

Student Organizations: Student Engineering Council, Texas Venture Group, IEEE

Interests: Cooking (ask me about my apprenticeship at UCHI), Gaming (ask me about my esports career), Reading