YUETING (ALEX) ZHU

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EDUCATION

University of Southern California — Los Angeles, CA
Master of Science in Analytics — May 2025-May 2025

Worcester Polytechnic Institute — Worcester, MA
Bachelor of Science Data Science & Computer Science — May 2023-May 2023

SKILLS

Programming: Python, SQL, R, Java, JS, C
- Web/App Development: React, Next.js, Express, Node, GoDaddy, Jira, GitHub
- Data Visualization: Tableau, Power BI, Microsoft Excel
- Database/Cloud: AWS s3, Mongo DB, Databricks, Apache Hadoop

Languages
- Chinese (Native), English (Professional), Japanese (Advance)

ACADEMIC PROJECTS

Software Engineer Group Project — Worcester, MA
Backend Lead Engineer — March 2023-May 2023
- Led development team as backend leader, providing guidance and knowledge transfer to fellow backend teammates, including basic SQL and fundamentals of relational database
- Collaborated with team, reviewing pull requests, writing tests, and implementing DAOs (Data Access Objects) for most tables, ensuring code quality and robustness
- Created ERD diagrams and executed SQL statements, triggers, and functions for different request and related tables
- Contributed to bug fixing and clarification of frontend component, map editor, ensuring smooth functionality and user experience

Capstone Project: Price Analysis from Multiple Listing Service Data — Worcester, MA
Member — October 2022-December 2022
- Self-studied Databricks based on Apache Spark and leverage it to operate datasets and analyze relationship between hurricanes and housing prices
- Utilized statistical models (X-13ARIMA and Seasonal Trend Decomposition) to predict future housing prices in areas in the USA
- Created Power BI dashboards using datasets from multiple listing service data (CoreLogic, Redfin, and Realtor) and built time series models to predict future housing prices, providing visualization of results from analysis

Deep Learning Group Project — Worcester, MA
Member — January 2022-May 2022
- Coded neural networks including Deep Q Networks (DQN), the Actor-Critic Method (A2C), and the NeuroEvolution of Augmenting Topology (NEAT) to analyze and compare their performance under different environment
- Assessed performance of each model in different environments/games (Super Mario Bros, Mountain Cart, BreakOut) using OpenAI, and a comparative analysis was conducted to identify each model's strengths and weaknesses

Machine Learning Group Project — Worcester, MA
Member — August 2021-October 2021
- Utilized various models including linear model, multi-feature model, logistic regression model, support vector classifier (SVC), Lasso/Ridge, LDA/QDA, and tree-based models to predict housing prices
- Assessed performance of each model and conducted a comparison based on parameter R-square

Data Science Group Project — Worcester, MA
Member — January 2021-March 2021
- Employed Python and the Twitter API to collect a substantial dataset of approximately 100 thousand rows of textual data from the Twitter platform
- Utilized Natural Language Processing(NLP) to analyze tweets and quantify number of individuals expressing positive sentiment towards mentioned games, enabling a comprehensive understanding of user opinions and preferences

PROJECTS

Personal Website   July 2023-Present
- Designed and developed a personal website for showcasing professional portfolio, skills, and achievements, while highlighting experience and expertise
- Integrated database functionality into website development using AWS S3, managing and storing data for seamless user experiences

INTERNSHIP EXPERIENCE

Hehui Technology Limited   Guangzhou, China
Assistant Software Developer   July 2020-August 2020
- Conducted rigorous testing of existing software applications and databases, identifying areas for improvement and implementing necessary modifications
- Gained a substantial understanding in development of a comprehensive online medicine warehouse management tool, leveraging JavaScript to create a robust and efficient solution

EXTRA CURRICULAR ACTIVITIES

Guangzhou Arcade Community   Guangzhou, China
Application Developer   March 2021-Present
- Develop, troubleshoot, and debug application for viewing current number of players on a specific arcade remotely
- In charge of development of a WeChat mini program with JavaScript, user interface design and application management

Badminton Club, WPI   Worcester, MA
Core Member & Assistant   August 2019-May 2023
- Competed in three tournaments, achieving a third-place in one of competitions
- Organize multiple promotional activities throughout year to attract new member and conduct regular training sessions for team members to improve