

Zijian (Shawn) Li

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TECHNICAL SKILLS

Technical Skills: SQL, Java, Python, Applied Machine Learning, C#, UML, HTML, CSS, JavaScript, PHP, Bash Shell

Platform & Tools: Tableau, RDBMS, HDFS, Hue, Hive, Impala, MySQL, Visual Studio, ASP.Net, SAP/ERP, SAS

WORK EXPERIENCE & PROJECTS

Pokémon Video Game Online Trading Web Application

Work in Progress

- Spearheading a web application design and development project, aimed at creating an efficient and innovative online selling/buying experience for Pokémon enthusiasts and small business owners alike.
- Analyzed requirements of each group of users and designed a user experience tailored to their needs by using **HTML/CSS**, **JavaScript** and **PHP/ASP.Net** to build customized front-end UI and properly controlled user accessibility.
- Constructing comparable **database** structures to accommodate front-end design requirements using **MySQL** and **ERD**.

Underground High-Speed Passenger Rail Tunnel Management

January 2020

- Analyzed 50k entries of airport information to provide insights into proposed \$20M High-Speed Rail construction project using a new scoring system that takes into account a variety of real-world measures.
- Sourced and cleaned 200MB of business data stored in AWS by utilizing local HDFS database, **DDL** and **Hue** Table Browser.
- Performed data query and management by using **SQL** query in **Impala** and **Hive** engines.

House Price Forecasting Model

November 2019 - December 2019

- Utilized Ridge regression, Ensemble Bagging, Boosting, and XGBoost algorithms to build a machine learning model, with a 0.12501 RMSE score. Ranked top 28% globally in out-of-sample testing.
- Constructed training/testing set performed data cleaning, and trained models by using Pandas, Numpy, Matplotlibs, Seaborn, Sklearn packages of **Python**.

Data Scientist Intern Project, Alpha Capital Holdings, Inc.

Jun 2019 - August 2019

- Designed and implemented a CDX long/short mean reversion trading strategy using a combination of IG and HY CDXs which generated 2.38% net-of-fee profit across a 10-year back testing period.
- Performed parameter tuning and searching by utilizing Monte Carlo simulation with a sample size of 5k, also automatically generated back testing results and analytics by using Pandas, Numpy, Matplotlibs packages of **Python**.

NFL Players Data Website Scraping

May 2019

- Utilized **RegEx** to analyze HTML structure on NFL websites and automatically scraped required players' information for analysis using **Java**.

Variety of End-to-End Management System with GUI

March 2019 - May 2019

- **Charter Rental Management System:** Developed an end-to-end Charter Rental Management System that takes into account user requirements and workflow efficiency from a business perspective using **C#**.
- **Pay Roll Management System:** Analyzed pay roll requirements of businesses, designed and developed a Pay Roll Management System using **Java**, also incorporated unit tests to regulate user behaviors.

EDUCATION

Colorado State University, Fort Collins, CO

August 2018 - Present

Master of **Computer and Information Systems**, Business Intelligence/Software Development

GPA: 3.89

CERTIFICATE

Data Visualization with Tableau Specialization – University of California, Davis

Modern Big Data Analysis with SQL – Cloudera

Applied Data Science with Python - University of Michigan

Foundations for Data Science - Stanford University