

Zirong Wang
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EDUCATION

UNIVERSITY OF SAN FRANCISCO

Master Program in Computer Science. GPA 3.88/4.00

San Francisco, CA

August 2018 - Expected May 2021

SAN FRANCISCO STATE UNIVERSITY

Bachelor Degree in International Business. Minor in Computer Science. GPA 3.53/4.00

San Francisco, CA

August 2012 – December 2015

Skills & Traits

Programming Language: Java, Python, C, JavaScript, Node.js, C++ and Swift.

Web & App Technologies: Express, Flask and Django, Spring Boot, React, HTML, Bootstrap, jQuery and Express.

Data & Cloud: Apache Beam and Kafka, Google Cloud Data Platform, BigQuery, MySQL, Postgres, Sequelize, Sqlite and SQLAlchemy.

WORK EXPERIENCE

Oakland Airport Executive Hotel (Red Lion Hotel Previously)

Oakland, CA

Financial Data Analyst

March 2016 – August 2018

- Built an internal web application through Django, Postgres and React to manage all financial resources.
- Traced financial information of commercial clients, such as account receivable and account payable, and generated business statistic reports and conducted data analysis by using Python Pandas and Numpy.
- Performed central service maintenance, including connection time-out, central system (Java programming designed by Oracle) and servers' restorations during collapse.

University of San Francisco

San Francisco, CA

Teaching Assistant

August 2019 – December 2019

- Worked in a real-world project-based senior course with over forty students. The course had multiple projects sponsored by various business entities and individuals, covering diverse languages and tools.
- Assisted other students with solving technical issues and improving system efficiencies in terms of back-end development. Languages and tools included Gradle, Groovy, Java, Node.JS, Python, React, mongoDB, MySQL and Postgres.

RESEARCH & PROJECTS

Lawrence Livermore National Laboratory

August 2020

- A machine-learning project with NLP which helps researchers to find information of business entities, disambiguate search terms and locate the correct candidates, searching across 124,000 company names in database.
- Best performance by hybrid algorithm: TF-IDF matcher, Jaro Winkler, Fuzzy String Matching. Find name matches using ML algorithm: KNN with averaged pretrained GloVe and K-Means clustering with averaged pretrained GloVe.
- Database: Postgres. Back-end API: Python Django. Front-end framework: React.

Apache Beam Data Processing Project

February 2020

- A series of progressive projects processing data and uploading to Google Data Platform for data analysis.
- Designed, fixed and optimized Proto input messages in order to store and process data efficiently. Languages and tools included Java, Kafka, Gradle, Google Data Platform and SQL query.

ChatJoy

September 2019

- An iOS social media application which enables users to communicate mutually. Users can send texts, pictures, audio messages, video messages, locations and make direct call to another party through a build-in phone call function.
- The frontend was implemented in Swift and Backend adopted FireBase.

Foodie

June 2019

- An iOS web application which can search specific food and cuisine around designated area. Implemented front end with Swift and back end with Node.Js. Used Express as framework and Sequelize as ORM and designed relational database model in Postgres.

Movie Recommender

September 2018

- Designed an algorithm to provide users with movie recommendations according to correlation coefficient among users' ratings and preferred genres. Designed multiple endpoints with CRUD functions and models for relational database for data storage and transferring between front end, HTML BootStrap and back end, Jetty.