

HONG LIN

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SOFTWARE DEVELOPMENT ENGINEER

A student in UCSD's Math-Computer Science program focused on software development who offers hands-on experience with web development. Excel at web application development and mobile application. and programming language in Java, SQL and Matlab.

EDUCATION

University of California San Diego, CA
Bachelor's Degree in Math & Computer Science

August, 2017-September, 2019

SKILLS

Programming Languages: Java, Go Python;

Web development HTML, CSS, JavaScript;

Libraries/Frameworks: React, Spark, Kafka, Flink, Spring;

Databases: relational databases (**Oracle, MySQL**), non relational database(**MongoDB**).

PROJECTS

Ticket+: Event Search and Ticket Recommendation(Web App) **2019/1 – 2019/3**

- Created Java servlets with **RESTful** APIs to handle HTTP requests and responses
- Built relational and NoSQL databases (**MySQL, MongoDB**) to capture real business data from Ticketmaster API
- Designed algorithms (e.g., **content-based recommendation**) to implement business recommendation
- Deployed server side to **Amazon EC2** to handle 150 queries per second tested by **Apache JMeter**.

Around: a Cloud and React based Social Network(Web App) **2018/7 – 2018/3**

- Designed and build an interactive web page for users to post and review events in **React.js**
- Built a scalable web service in **Go** to handle posts and deployed to **Google Cloud (GAE flex)** for better scaling
- Utilized **ElasticSearch (GCE)** to provide geo-location based search functions such that users can search nearby posts within a distance (200km)
- Used Google Dataflow to implement a daily dump of posts to **BigQuery** table for offline analysis
- Aggregated the data at post and user level to improve the keyword based spam detection (BigQuery)

Twitter Stream Real-time Processor (Spark, Kafka, Flink) (Web App) **2018/2– 2018/5**

- Designed a real-time processor with **Spark** to process popular Twitter hashtags
- Implemented a positive/negative word monitor with **Kafka** and Spark (60 Tweets per second)
- Improved the processing with **Flink** with better efficiency and suitability
- Visualized the results (1% of public Tweets) with Ajax and Javascript chart

React JS based NBA Player Strength Visualization **2017/11– 2018/1**

- Created a dashboard using **React, D3** and **Ant Design** backed by API from **stats.nba.com** to visualize individual player's shot data, including a shot chart and user profile view.
- Created 4 extra filters and 2 shot themes(hexbin and scatter) to provide more customized visualization on the shotchart.
- Developed a autocomplete player search bar providing a list of players(image and name) in the suggestion list.