

Faye Zhang

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SUMMARY

Dynamic, detail oriented software engineer with 4 years' experience of JAVA and proven track record of requirements gathering, designing and developing applications. Excels at learning new technologies and applying them to develop clean and well-structured code. Experienced at work on projects at all stages of development life cycle from idea to development to delivering the completed product.

TECHNICAL SKILLS

Object-Oriented Languages: Java

Front End: HTML5/CSS3/Javascript, ES6, React, React-Redux, JQuery, Bootstrap, Ajax, RESTful

Back End: NPM, Apache Tomcat, MySQL, MongoDB, Hadoop, JMeter, Node JS, Express

Software Skills: Eclipse, IntelliJ, Sublime Text, Visual Studio, Postman, Android Studio, Git, etc

Networking API: Firebase API, Google Map API, TicketMaster API, Spotify API

WORK EXPERIENCE

Sr. Reliability Software Engineer, SK Hynix Memory Solutions

Jan, 2015 – Nov, 2018, San Jose, CA

- ❑ Designed, developed, launched and managed applications and infrastructure with **JAVA** in a team of 3
- ❑ Fulfilled clients spec requirements of volume test via innovative solutions, while improved workflow stability and efficiency
- ❑ Collaborated in failure diagnoses to target root causes precisely and facilitate problem solving
- ❑ Showcased product performance report which finalized volume delivery successfully and attained great profit for company

PROJECTS

Ticket+: Event Search and Ticket Recommendation

[Demo](#)

- ❑ Designed an interactive web page for users to search events and purchase tickets utilizing AJAX technology (HTML/CSS/JavaScript)
- ❑ Created Java servlets with **RESTful APIs** to handle HTTP requests and responses
- ❑ Built relational and NoSQL databases (**MySQL**, **MongoDB**) to capture event data from TicketMaster API
- ❑ Designed algorithms (e.g., content-based recommendation) to improve event recommendation based on search history and favorite records)
- ❑ Deployed server to **Amazon EC2** to handle 150 queries per second tested by Apache JMeter.

ELK User Behavior Analysis

- ❑ Used ELK to target mobile users on the basis of demographics` location` behavior` device and service provider and etc.
- ❑ Built an **ElasticSearch** project to store user session data and process raw information before further analysis
- ❑ Used **Timelion** timeline to identify peak seasons and periods for resource usages (weekends` holidays etc)
- ❑ Utilized Geolp in **Kibana** to analyze the geographic distribution of new customers and returning users
- ❑ Used **MapReduce** in MongoDB to process logs exported from web servers to find peak periods
- ❑ Tested the geolocations of 10k fake users with JMeter and delivered to 70 alpha test users to improve the quality of the product and ensure beta readiness

Around: a Geo-index based social network

- ❑ 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 (e.g. 200km)
- ❑ Used Google **Dataflow** to implement a daily dump of posts to **BigQuery** table for offline analysis
- ❑ Aggregated the data at the post level and user level to improve the keyword based spam detection (BigQuery)

NBA Player Strength Visualization

[Demo](#)

- ❑ Created a dashboard to visualize individual player's shot data, including a shot chart and 4 line/bar charts.
- ❑ Implemented linked highlighting among all charts using raised common **React** state among charts.
- ❑ Created a field goal percentage filter to provide more detailed visualization areas with made shots.
- ❑ Developed a match filter to more specifically visualize stats for home, away, won and lost matches.

Other Self-Study Projects:

- ❑ **YelpCamp:** Responsive React-Redux Web App. Authentication, Express, NodeJS, MongoDB.

[Demo](#)

- ❑ **GoalCoach:** Responsive React-Redux Web App. Authentication with the full server hosted by Firebase
- ❑ **PatatapGame:** Single page React app with Spotify API

[Demo](#)

[Demo](#)

EDUCATION

Master of Science Electrical Engineering
Bachelor of Science Electrical Engineering

University of Minnesota-twin cities Sep, 2012 – May, 2014
University of Minnesota-twin cities Jul, 2010 – May, 2012

MORE

[My Github](#), [LinkedIn](#), and [Ins](#)

Interests and passions: Painting