

Faye Zhang

Email: im5dii@gmail.com || Tel: 612-5161274 || Address: 200 Infinity Way, Apt 2316, Mountain View, CA, 94043

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.

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

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.

YelpCamp:

[Demo](#)

- ❑ **Responsive React-Redux** web app with authentication handled by Passport.js
- ❑ Created using Node.js, Express, MongoDB, and Bootstrap. Location support from **Google Maps API**

GoalCoach:

[Demo](#)

- ❑ **Responsive React-Redux** web app with authentication with the full server hosted by **Firebase**

PatatapGame:

[Demo](#)

- ❑ **Single page React** app with Spotify API
- ❑ Created using Paper.js and Howler.js

My profile link:

fayezhang.com

- ❑ Responsive web app with domain and host service from Godaddy
- ❑ Created using Bootstrap, HTML/CSS/JS

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

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 Maps API, TicketMaster API, Spotify API

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