

Jiawei Liang

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OBJECTIVE

Seeking full-time software development engineer position.

EDUCATION

Purdue University

May 2017

Bachelor of Science, Computer Science

GPA: 3.39 / 4.0

Courses: Object-Oriented Programming(Java), Foundations Of Computer Science, Programming In C, Computer Architecture, Data Structures And Algorithms, Systems Programming, Software Engineering, Information Systems, Operating Systems, The Analysis of Algorithms, Software Testing

EXPERIENCE

Scrum Master (Team Leader) — Purdue University SDE

Aug 2016 - May 2017

- Applied **scrum methodology(Agile)** to accelerate development process .
- Understanding of **Software Development Life Cycle (SDLC)** principles.
- Wrote Product Backlog, Design Document, Sprint Planning Documents and Sprint Retrospective Documents.
- Reduced bugs by **White-box Testing, Black-box Testing, A/B Testing, and Unit Testing.**
- Kept a good relationship with every teammates to make the whole team work efficiently.
- Used Github as **Version Control** system to cooperate with teammates and manipulate codes.

Project: **EZDecide** (Available in iOS App Store)

Jan 2017 - May 2017

Designed an iOS social network app for users who are difficult to make decisions to post their questions and other users can vote and comment to help them decide.

- Implemented **device-to-device notification** with **Firebase** and **self-built server**.
- Improved security by providing user **authentication with Firebase**.
- Tested with 6 alpha test users and posted 20 posts to make sure every functions perform correctly.
- Presented to professors and was chosen as the **representative** of projects with **creativity and dedication**.

PROJECTS

User Behavior Analysis

Aug 2017 - Sep 2017

Used ELK to target mobile users on the basis of demographics, location, behavior, device and service provider, etc

- Built an **ElasticSearch** project to store user session data and process raw information before further analysis.
- Utilized GeoIp in **Kibana** to analyze the geographic distribution of new customers and returning users.
- 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.
- Designed a **MapReduce** program in **MongoDB** to aggregate time series data and predict peak seasons.

Event+: Java Web Service Development – Event Search and Recommendation Engine

Aug 2017 - Sep 2017

- Developed a dynamic web page for users to search events and update preferences.
- Improved personalized event recommendation based on search history and favorite records.

Back End:

- Created Java servlets with **RESTful** APIs to handle HTTP requests and responses.
- Built relational and **NoSQL** databases (MySQL, MongoDB) to fetch event data from TicketMaster API.
- Designed algorithms (e.g., **content-based** recommendation) to implement event recommendation.
- Deployed back-end server to **Amazon EC2** to handle 150 QPS tested by **Apache JMeter**.

Front End:

- Designed an interactive web page utilizing **AJAX** technology (**HTML, CSS and JavaScript**).

TECHNICAL SKILLS

Languages: Java, Spring, Swift, Go, Javascript, React, Angular, HTML, CSS, C++, Ruby, Python, C#, MySQL, MongoDB, ELK

Softwares: IntelliJ IDEA, XCode, Android Studio, Postman, Sketch **OS:** Mac OSX, MS Windows, Linux