Jiapei Liang

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OBJECTIVE
Seeking full-time software engineer related 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.
- Applied **Software Development Life Cycle** (SDLC) principles to project development.
- 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.**
- Used Github as **Version Control** system to cooperate with teammates and manipulate codes.

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**).

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 100% correct.
- Presented to professors the project was chosen as the **representative** of projects with **creativity.**

TECHNICAL SKILLS
Languages: Java, Spring, Swift, Objective-C, Go, Javascript, Node.js, HTML, CSS, C++, Ruby, Python, C#
Database: MySQL, Oracle SQL, MongoDB, Firebase **Franworks:** React, Angular
Softwares: IntelliJ IDEA, Eclipse, XCode, Android Studio, Postman, Sketch **OS**: Mac OSX, MS Windows, Linux
Testing: JUnit, JMeter, Mocha **Others:** ELK, React Native, Ionic, Bootstrap