Jiapei Liang

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EDUCATION

Purdue University   **May 2017**
Bachelor of Science, Computer Science, Software Engineer Track   **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

TECHNICAL SKILLS

Languages: Java, Spring, Javascript, React, Angular, HTML, CSS, Swift, C++, Ruby, Python, C#, MySQL, ELK
Softwares: IntelliJ IDEA, XCode, Android Studio, Postman, Sketch **OS**: Mac OSX, MS Windows, Linux

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 preference
- 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 server side 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**)

EXPERIENCE

Scrum Master (Team Leader) — Purdue University SDE   Aug 2016 - May 2017
- Applied **scrum methodology(Agile)** to accelerate development process
- Reduced bugs by **white-box**, **black-box**, **A/B**, and **Unit Testing**
- Using Github as **version control** system to manipulate codes

Project: **EZDecide** (Available in iOS App Store)   Jan 2017 - May 2017
- Designed a 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.
- Integrated with **UIImagePickerController** to fetch image from library and camera
- Implemented **device-to-device notification** with **Firebase** and **self-built server**
- Improved security by providing user **authentication with Firebase**
- Used **UITableView** to illustrate search result with customize **UITableViewCell**
- Updated UITableView by delegate pattern based on implement **UITabeViewDataSource** protocol
- Implemented Multiple MVC through **UINavigationController** to support better capabilities
- Used **StackViews** to display titles and images of options for users to vote
- Used **AlamofireImage** to download and cache images to speed up the app
- Presented to professor and GTAs and was chosen as the **representative** of projects with **creativity and dedication**