

# Jiawei Liang

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West Lafayette, IN

## 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, black-box, A/B, and Unit Testing**.
- Kept a good relationship with every teammates to make the team work efficiently.
- Used 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.

- Implemented **device-to-device notification** with **Firebase** and **self-built server**.
- Improved security by providing user **authentication with Firebase**.
- Integrated with **UIImagePickerController** to fetch image from library and camera.
- 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 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**).

## 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

