

Jiawei Liang

2501 Soldiers Home Rd, Apt 4D, West Lafayette, IN 47906

Tel: (765) 337-3440 • Email: liang@jiawei.io • Github: [liangjiawei](https://github.com/liangjiawei) • Website: www.jiawei.io

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

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

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.
- Used **Timelion** timeline to identify peak seasons and periods for resource usages (weekends, holidays etc.)
- 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

- 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 CS SDE

Aug 2016 - May 2017

- Applied **scrum methodology** 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 social network for people who are difficult to make decision to make posts about their questions and other users can vote and comment to help them decide.
- 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
- Implemented **device-to-device notification** with **Firebase** and **self-built server**
- Integrated with **UIImagePickerController** to fetch image from library and camera
- Improved security by providing user **authentication with Firebase**
- Presented to professor and GTAs and got chosen as the **representative** of projects with **creativity and dedication**