Brian Wu

(408) 758-0318
brian13wu@gmail.com
github.com/yudi3160
1 S Maket St., Apt 603, San Jose, 95113

SUMMARY

Objective: Seeking for Software Engineer full-time position
Languages: Proficient: Java, Python, C; Experience: C++, Javascript, Shell, Assembly
Technical Skills: Spring MVC, Spring Boot, Spring Data, Spring Cloud, Django MVC, SQL/MySQL, MongoDB, Docker, Bootstrap, RESTful API, Maven, JPA, Hibernate, Tomcat, WebSocket, HTML, Google Analytics, MATLAB, Git, IntelliJ IDEA, Vim

EDUCATION

Purdue University B.S of Computer Engineering GPA: 3.52 / 4.00 08/2013 – 05/2017

PROFESSIONAL EXPERIENCE

Software Engineer, SSCDAE LLC 09/2017 – present
Real-time Solar Panels Monitoring System

- Designed and developed a real-time solar panels' status monitoring service using Java, Spring MVC, Spring Boot, Spring Data, Spring Cloud, Maven, JPA, Hibernate, Tomcat, MongoDB, JavaScript, Bootstrap, WebSocket, HTML5, CSS3
- Designed and implemented back-end services to achieve server-side REST APIs, such as solar panels simulator and device status update handler using Spring Data, Spring Boot and Spring MVC
- Persisted devices' metadata and energy generation data to MongoDB using Spring Data at Data Access Layer.
- Developed the single page front-end to integrate with backend using HTML5, CSS3, JavaScript, REST and WebSocket
- Used Maven to manage dependencies. Used Spring Boot Actuator to monitor application health

Research Assistant, Purdue University 01/2016 – 12/2016
ACCESS (Analysis of Code on Cloud as an Educational Service to Students)

- Designed and developed an educational web service for students to support upload, online judgment and generate the metadata from students by using Python, Django MVC, MySQL, Docker, JavaScript, Bootstrap, HTML5, CSS3, Apache, Jenkins, and Google Analytics
- Efficiently Implemented server-side REST APIs utilized by front-end website, such as projects and files management API, course and student administration API using Django MVC
- Designed a customized Git for students to do the version control of their projects by using the self-developed model with MySQL database. And utilized Docker to ensure the isolation between code test environment and server
- Effectively improved the efficiency for the user to manage their info, files, and course information by using MySQL
- Used Git as source code version control. Used Jenkins and Docker to achieve continuous integration/delivery
- Collected students' activity data using Python and Google Analytics and generated reports for instructors

PROJECT EXPERIENCE

Application Controlled Automatic Bartender 01/2017 – 05/2017

- Designed and implemented an automatic bartender machine with an Android Application by using Java, C and embedded system involved with Bluetooth low energy, UART, and SPI
- Improved the user experience by developed an Android application integrated with the embedded system to display the UI for the customer to access the menu of the bartender machine.
- Well organized the layout as well as optimized the memory usage of the application by using multiple types of layout and View, such ListView, GridView RecyclerView.
- Utilized UART, SPI, Bluetooth 4.1 protocols to establish fast and stable connections between devices and chips
- Completed the integration test between embedded system with the app to guarantee the functionality of the entire system