

Haonan Yu

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Summary

Dynamic, detail-oriented, bilingual software engineering graduate seeking for full-time software engineer position from Summer 2019. Skilled in requirements eliciting, designing, and developing applications. Equipped with experience in web application development from front-end to back-end. Excel at learning new technologies and applying them to develop clean and well-structured code.

Education

Master of Engineering, Software Engineering

University of Maryland – College Park, MD

Expected: May 2019

GPA: 3.5

Bachelor of Science, Computer Science

Shanghai University – Shanghai

July 2016

Major GPA: 3.5

Skills

Languages: Java, JavaScript, Python, C, SQL, HTML5/CSS

Frameworks: Angular6, JavaEE, JDBC, Node.js, Express, RESTful API, JUnit, TCP/IP, Nginx

DataBase: MySQL, Redis, MongoDB

Tools: Unix/Linux, Eclipse/IntelliJ IDEA, Sublime(Atom/Vim), Git, Maven, Apache Bench, Postman, Docker, Tomcat

Projects

Restaurant Recommendation Website based on Yelp API (Full Stack Project)

Aug to Sep 2018

Tasked to create a restaurant recommendation web application

- Developed an interactive web page to recommend nearby restaurant to users. (HTML5, JavaScript)
- Developed a web service to fetch restaurant data from Yelp API. (Java Servlet, RESTful API)
- Implemented a content-based recommendation algorithm.

Collaborative Online Judge System (Full Stack Project)

May to Aug 2018

Tasked to create an online judging platform for judges and collaborative work

- Implemented a web-based collaborative code editor which supports multiple user editing simultaneously and can restore real-time context to new members joining the problem. (ACE, Socket.io, Redis)
- Designed and developed a single-page web application for coding problems. (Angular6, Node.js, MongoDB)
- Implemented an user-code executor which can build and execute user's code with multiple programming languages. (Docker, Flask, Python)
- Improved system throughput by decoupling services using RESTful API and loading balancing by Nginx.

Elicit and design a Glucose Monitor System (Course Project)

Feb to May 2018

Tasked to design a high-level architecture of a mobile application to monitor and record patients' glucose

- Analyzed the requirements provided by stakeholders via User-Case and Prioritization techniques, and drew E-R diagram and Use-Case diagram to describe the functionality of the system.
- Documented the system activity flow by applying Activity diagram and State Machine diagram techniques.
- Designed high-level architecture of the system by using Function-oriented decomposition technique.

Work Experience

Shanghai Sansi Technology, Shanghai

July 2016 to Feb 2017

Software Engineer (Intern)

- Developed an integration with Sansi's smart bulb server and Amazon Alexa that created a new product line of voice command bulbs. (Node.js, Express, Http)
- Implemented a security verification check that significantly improved product security. (MySQL)
- Implemented Sansi's bulb discovery system which enables users to find and add smart bulbs to their accounts.

Shanghai Bangbo Agriculture Science, Shanghai

Feb to May 2016

Software Developer (Intern)

- Designed a relational database based on RBAC that largely reduces the system data redundancy. (MySQL)
- Implemented group authority management, special privilege granted, and permissions granting functions.
- Developed a website to test the usability of that database. (HTML/CSS, JSP, JDBC)