

Hanpu Wei

For more information, please visit my website: hanpu.site

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Objective: Software Engineer **Intern** position focusing on **Backend Development**.

Summary

- **Languages:** Proficient: Java; Prior Experience: C++, Python, HTML, CSS, JavaScript, Node.js, PHP.
- **Tech Skills:** Spring MVC, Spring Boot, Spring Cloud, Spring Data, Maven, IntelliJ, JPA, Eureka, Hystrix, Hibernate, Tomcat, Postman, MySQL, MongoDB, RabbitMQ, Docker, WebSocket, STOMP, Linux, Git, Maven.
- **Architecture:** RESTful APIs, Microservices, Object-Oriented Programming.

Education

M.S. in Computer Science	University of Southern California, Los Angeles, CA.	GPA 3.6, Dec.2020
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Experience

Back-End Project, Los Angeles	June – August 2019
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Real-time car location simulation and monitor system in Java Spring

- Designed and developed a real-time car location simulation and monitoring system using **Java, Spring MVC, Spring Boot, Spring Data, Spring Cloud, Maven, JPA, Hibernate, Tomcat, RabbitMQ, MongoDB, WebSocket, HTML, JavaScript, Bootstrap**.
- Effectively implemented server-side **REST APIs** such as car location simulator and persistence handler using **Spring Data, Spring Boot** and **Spring MVC**. Design and implemented back-end services based on **Microservices** architecture.
- Built Data Ingestion **Microservice** to accept, validate and preprocess raw input data and publish to **RabbitMQ** as message broker to decouple back-end services.
- Develop Data Processor **Microservice** to subscribe data from **RabbitMQ** in producer-consumer model, process data and trigger rule engine actions and persist data to **MongoDB** using **Spring Data** at Data Access Layer. Used Spring Boot **Actuator** to monitor application health.
- Achieved high availability and flexibility by configuring **Spring Cloud Eureka** Server Cluster for microservices registration and discovery, and **Hystrix** for system level monitoring and circuit breaker.
- Deployed applications to embedded **Tomcat** in automated fashion. **Dockerized** the system and **RabbitMQ** in a **Xenserver** managed virtual machine. Developed Data Dashboard Microservice in **HTML, CSS, JavaScript, Spring Boot, WebSocket** and **STOMP** to display real-time data.
- Used **Git** as source code version control. Used **Maven** to manage dependencies.

Computer Science Project, University of Southern California	February – April 2019
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Products Search Web Application

- Create a responsive webpage allowing users to search for products using **Ajax, JSON, HTML5, CSS3, Bootstrap, Angular, jQuery, DOM, Node.js, AWS**.
- Use **Node.js** to create backend service to get the data provided by clients and use eBay APIs to get the **JSON** files containing satisfied products information. Extract useful information and generate a table to display the product's information using **HTML5, CSS3**.
- Use **jQuery** and **DOM** to control actions invoked by clients. Asynchronous data retrieval through **XMLHttpRequest**.
- Make pages **responsive** to different mobile devices with responsive design using the **Bootstrap** Grid System (Bootstrap Forms, Tabs, Progress Bars and Alerts).
- Used ip-api.com to search the geolocation based on IP address and used Geonames API to get suggestion and auto complete zip code. Used Google Customized Search API to retrieve photos about the Product.
- Executed the whole application to **Amazon Web Services (AWS)**.