Geli Yang

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Portfolio: Geli Yang
Github
LinkedIn

Looking for SDE,SWE, Full stack position

EDUCATION

Master of Science in Computer Science, *Villanova University* GPA:3.5/4.0 — Aug 2021 —May 2023(expected)
Master of Science in Mechanical Engineering, *University of Pennsylvania* GPA:3.5/4.0 — Aug 2019 — May 2021
Bachelor of Science in Mechanical Engineering, *University of Arizona* GPA:3.5/4.0 — Aug 2015 — May 2019

SKILLS

Programming Languages	Java, Python, JavaScript, TypeScript, Go, C, C++
Web Frameworks	Spring, ReactJS, ExpressJS, VueJS, Spring Data JPA, Hibernate, SpringMVC, MyBatis, Selenium
Database and Tools	MySQL, PostgreSQL, MongoDB, Elastic Search, SQLite, Linux, AWS, Docker, Git, Apache Tomcat, Elastic-search, Jenkins, Maven, MQTT, RabbitMQ, Kubernetes, Kdiff3, Postman,Agile Software Development

TECHNICAL EXPERIENCE

Order Management System with RESTful Spring Boot Microservices — **Aug 2022— Sep 2022**
Individual , Backend Developer
- Built a set of **RESTful** microservices to handle **HTTP** requests such as placing order, checking inventory, getting product details.
- Registered services using **Eureka discovery** and enabled load balancing and service routing using **Spring Cloud Gateway**.
- Established **synchronous** communication using WebClient. Persisted data into **MySQL** database using Spring **JPA** and **Hibernate**.
- Traced HTTP requests with **Spring Cloud Sleuth** and **Zipkin**, integrated notification service using **Kafka**.
- Made the system **50%** more resilient and fault-tolerant by using the **Resilience4j** circuit breaker.

Cloud Based Photo and Video Search System — **July 2022 — Sep 2022**
Individual, Full-stack Developer
- Launched a scalable web service in **Go** to handle posts and deployed to **Google Cloud** (Google App Engine).
- Designed and implemented frontend web application with **ReactJS** and enabled users to register, create and browse posts.
- Implemented the authentication using token based registration/login/logout flow and server-side user authentication with **JWT**.
- Used **ElasticSearch** (deployed to GCE) to provide search functions such that users can search by keywords or by person.
- Queried over **200** images and videos to **Google Cloud Storage** to facilitate search functionality.

Full-Stack Social Media Application — **July 2022 — Sep 2022**
Team of 2, Full-stack Developer
- Led a team of two in **Agile** environment to develop and implement a online social media application.
- Implemented **RESTful API** services via **ExpressJS** and **MongoDB** as the backend services, deployed to **heroku**
- Designed and implemented frontend with **ReactJS** and ContextAPI, enabled users to register, create and browse posts

A Spring and Hibernate Based Online Food Ordering System — **May 2022 — Aug 2022**
Individual, Full-stack Developer
- Implemented **RESTful API** services via **SpringMVC** including registration, menu searching, ordering, and checking out.
- Utilized **Hibernate** to access and operate the data storage (menu, restaurant, etc) on a AWS RDS **MySQL** database.
- Provided both authentication and authorization via **Spring Security** to protect the application from malicious attacks.
- Built the client side with **ReactJS** to allow users to add items to the shopping cart and place orders.
- Used the **Spring** framework core technologies to loosely decouple all the components in the application, deployed on **AWS EC2**.

An Uber-Like Ride Publishing and Distribution System — **May 2022— Aug 2022**
Individual, Backend Developer
- Implemented **RESTful API** via **Spring Boot** to handle requests including registration, order placing and ride logging.
- Utilized **Mybatis** to access and operate the data storage (User,Order,Ride,Route and Log) on **MySQL** database.
- Engineered a **EMQx MQTT** server to adapt publish/subscribe model to facilitate **asynchronous** ride publishing and subscribing.
- Worked with **BaiduMap API** to allow user to choose start and destination position on a rendered map.

LeftoverMarketPlace, Waffle-hack hackathon 2022 winner-Food Insecurity Track — **June 2022 — Aug 2022**
Team of 2, Full-stack developer
- Designed and implemented a **surplus food and used goods marketplace** backend application.
- Provided **RESTful APIs** for users to register, login, make posts and chat with other users via **ExpressJS** framework.
- Leveraged **bcrypt** and **JWT** to encrypt server-side authentication. Deployed the backend to **heroku**.

Design of Mechatronic Systems (Graduate Level) - University Of Pennsylvania — **Jan 2021 — May 2021**
Teaching Assistant
- Held over **100** hours of office hour to provide assistance to student's learning, instructed students in weekly labs.
- Coached 6 students and assisted them in designing and propotyping of autonomous robot car. Language used:**C and Arduino**.
- Collaborated with a team of 7 colleagues at weekly meeting and actively contributed new ideas on teaching.
- Received **The Most Helpful TA** votes/reviews from 65 students.