

Hailey Sun

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EDUCATION

University of California, Irvine

Irvine, CA

Master of Software Engineering (GPA: 4.0)

Sep 2022 - Dec 2023

- **Core Coursework:** Data Structures/Algorithms, Networks, Databases, iOS/Web Development, Software Testing, Distributed Architecture, Cloud Foundations, Reverse Engineering & Modeling, Software Security & Dependability

Ohio State University

Columbus, OH

Bachelor of Arts in Sociology (GPA: 3.88)

Aug 2016 - Dec 2019

- Honors in the Arts and Sciences

Relevant Coursework:

- Basic Data Structure & OO Design, Software Tools & Techniques (taken at **UC, San Diego**, 2021 Fall)
- Discrete Math, OO Programming Method Java, Introduction to Linux (taken at **Foothill College**, 2021 Fall)

WORK EXPERIENCE

Viant Technology

Starting Jun 2023

Incoming Software Engineering Intern, Backend

Irvine, CA

- Will assist in developing and maintaining a person-based advertising web application via **Java Spring Boot** and **Hibernate** which calls **Go** microservices via **RESTful APIs** running in **AWS Lambda**
- Will establish best-practice guidelines for engineers about **RESTful APIs**, improving consistency and usability
- Will elevate test practices, primarily focusing on the creation of comprehensive guidelines, documentation, and examples that enable engineers to write thorough **unit tests** and boost **code coverage**
- Will utilize **Gorm ORM** alongside **Go** and **SQL** for optimal database management and database agnosticism

Hisense TransTech Company

Jun 2022 - Sep 2022

Software Engineering Intern, Backend

Qingdao, China

- Designed and developed a data processing microservice via **Java Spring Boot** with **Kubernetes** for a security management web application, scaling microservices independently and increasing the ease of maintenance
- Utilized **Spring MVC** to implement **RESTful APIs** for alert collection, file archiving, and personnel allocation
- Configured **Apache Kafka** to promote data exchange between microservices, resulting in low-latency data streams
- Extracted 1k+ person and vehicle images/sec by using **Redis**, resulting in high-performance analytics capabilities

Guangzhou Pharmaceutical Pharmacy

Nov 2020 - May 2021

Software Engineer

Guangzhou, China

- Integrated 2,000+ daily orders from multiple applications into a single page order management web application with **React** and **Java Spring Boot**, streamlining the order process and boosting the efficiency of the process by 70%
- Optimized database operations by using **Java Hibernate** to map order data to **MySQL** hosted on **AWS RDS**
- Automated 2k+ daily orders processed by **Python** scripts, reducing daily data processing time from 2 hrs to 5 min

PROJECTS

BookMyStay: A Single Page Airbnb-like Booking Web Application

May 2022 - Jun 2022

- Initiated a **RESTful** home renting and reserving web application by **React** with **Redux** and **Java Spring Boot**
- Authenticated users via **JSON Web Token (JWT)** with **Spring Security**, reducing the load on the server
- Leveraged **MySQL** hosted on **AWS RDS**, integrated **Java Hibernate** to operate structured data, and employed **AWS S3** to store media files for the uploaded stays, optimizing the efficiency of accessing and operating data
- Accelerated deployment and enhanced security by leveraging **Docker** to deploy the backend service to **AWS EC2**

MySocialMedia: A Single Page Cloud-based Social Network Web Application

Feb 2022 - April 2022

- Delivered a **RESTful** web application by **React** with **Redux** and **Go**, building features about social media
- Exploited **Elasticsearch** by creating inverted indices for the message of posts, enabling powerful full-text search
- Implemented all functionalities (e.g., registration, posting) in **Go** with 100% code coverage and deployed the program to **Google App Engine** via **Docker**, substantially increasing the code maintainability and performance

TECHNICAL SKILLS

Languages: Java, Go, JavaScript, TypeScript, Python, Kotlin, Swift, SQL

Technologies: Spring Boot, Hibernate, GORM, Elasticsearch, Kafka, MySQL, Redis, React, AJAX/HTML5/CSS

Cloud Services: Amazon Web Services (EC2, Lambda, RDS, S3), Google Cloud Platform (GAE, GCE, GCS)

Developer Tools: Git, Postman, Docker, VS Code, IntelliJ, Linux, Maven