Haitian Hao

929-544-6873

@ hait.hhao@gmail.com

https://hhao08.com

EXPERIENCE

Software Development Engineer Intern

Amazon.com

iii 05/2022 - 08/2022 ♀ Arlington, VA

Java(Spring)/Go/MySQL/NodeJS/AWS/Kubernetes

- Attained the SDE internship offer in the Consumer team under manager Andy Van Zeeland.
- · Collaborated with senior developers to implement scalable software systems, demonstrating communication skill in a fast-paced, dynamic work environment.
- Built an internal tool that analyze consumers' behavior by visualizing and debugging metric queries, crucial to landing new customers.
- Deployed applications using Elastic Beanstalk and AWS CICD with full automation. Maintained, monitored microservices using CloudWatch on AWS.

Software Engineer

VPICKU INC

Python/JavaScript/React/Django/MySQL/HTML/CSS/Git

- Cofounded a startup company that helped 100+ new international students to settle and adapt to challenges in the new environment.
- Utilized React.js, HTML5, CSS, and JavaScript to build a responsive and user-friendly front-end interface.
- Designed and implemented RESTful APIs using Django REST framework to handle various business operations order placement, payment processing.

Software Engineer

MicroShield Technology

C++/Java/JavaScript/SQL

- Collaborated with interns and junior developers in an inclusive team-based environment, created 2000+ lines of scalable code.
- Deployed and maintained software solutions to real-world clients' demands. Extensively worked with JavaWeb frameworks Spring, SpringBoot, Maven.

PROJECTS

Distributed Web Crawler

Python(Scrapy)/RabbitMQ/Nginx/MongoDB

- Achieved web crawling in parallel across multiple machines, focusing on load balancing, distributed task scheduling, and efficient data storage and retrieval.
- Designed and implemented load balancing techniques to distribute tasks, utilized Nginx as a reverse proxy and load balancer for improved performance.
- Successfully applied the web crawler for various purposes, extracting data from 10+ e-commerce websites for market research, aggregating content and gathering news of 100+ companies for stock investments.
- · Reduced data acquisition costs by 30% by automation, achieved faster results with existing resources, increasing productivity and efficiency.

Virtual E-commerce store

JavaScript(React)/NodeJS/SQL/AWS

- Designed and built an E-commerce store with inclusive functionality and user information security management.
- . Implemented payment integration with PayPal API integration to enable smooth and secure online transactions, resulting in a 60% increase in conversion rate.
- · Deployed the project to Amazon S3, learned and leveraged Amazon RDS database for customer and merchandise data.
- · Maintained and simulated real-world applications, successfully handling 1000+ active users and 50+ transactions per day.

Online Task Manager Web Application

Java/JavaScript(Angular)/SQL/MongoDB

- · Established and deployed a web app to manage to-do tasks allowing online adding/editing/searching/customizing operations.
- Utilized self-built **RESTful API** with **Node.js** to handle HTTP requests and responses.
- Leveraged MongoDB to store and manage cross-platform data and records of tasks within the scale of 10,000

EDUCATION

M.S. in Computer Engineering

New York University

• Teaching Assistant | Real-Time Embedded Systems, Principles of Database Systems, Advanced Machine Learning

B.S. in Computer Science, B.S. in Mathematics

University of Maryland, College Park

• Dean's Honor List | Algorithms Analysis, Advanced Data Structure, Deep Learning, Data Science, Applied Linear Algebra

SKILLS & CERTIFICATIONS

- Language: Go, C++, TypeScript, Java, JavaScript, Python, Ocaml, Ruby
- · Frameworks: React, Node.js, Express.js, Django, Spring, Kafka
- Industries: Web Development, Cloud Computing, DevOps/Infrastructure, Automation/Scripting, Machine Learning/AI

Certificates: Deep Learning Specialization | Machine Learning Structuring and Strategies