# Haitian Hao

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## **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, Kotlin, Python, Ocaml, Ruby
- Frameworks: React, Node.js, Express.js, Django, Spring, Kafka, Linux, PyTorch
- Industries: Web Development, Project Management, Software Troubleshooting, DevOps/Infrastructure, Automation/Scripting, Machine Learning/AI, Database Design

Certificates: Deep Learning Specialization | Machine Learning Structuring and Strategies