Zevu Gu

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EDUCATION

Yale University

New Haven, CT

September 2022 - May 2023

Boston University

Master of Science in Computer Science

Boston, MA

Bachelor of Arts in Computer Science

September 2018 - May 2022

• GPA: 3.94/4.0

• Summa Cum Laude

Professional Experience

Software Engineer Intern

June 2022 - August 2022

CertiK

Remote, US

- Took part in the full-stack development of SkyHarbor, a NextJs based web application that facilitates efficient smart contract auditing process
- Integrated the Slack and Discord APP with SkyHarbor to support multi-platform client notification
- Developed the UI, backend API, Slack and Discord bot for the client notification service
- Developed UI automated test suite using the **Jest** framework
- Improved user experience by refactoring file upload logic for UI optimization and implementing new feature pop-up notification

Quality Assurance Engineer Intern

May 2020 - August 2020

ByteDance

Beijing, China

- Conducted API testing, test case design, and test script writing for an enterprise application
- Wrote automated API testing scripts in Java using TestNG framework, which could replace 50% of the manual testing process and identify major functional bugs
- API test scripts achieved 70% overall code coverage rate and 100% coverage rate for major API functions
- Wrote Jenkins Pipeline Script to implement automated testing continuous integration

Software Engineer Intern

August 2019 - September 2019

Microsoft Asia-Pacific R&D Group

Beijing, China

- Designed and implemented a multi-functional chatbot service using Python and the Web.py framework
- Independently developed the WeChat chatbot, deployed to Linux server, and integrated third-party APIs to execute certain chatbot functions such as auto-reply, package delivery tracking, recipe searching and weather report
- Implemented user intent recognition by leveraging the Microsoft LUIS language understanding service

TECHNICAL SKILLS

Languages: Python, Java, Javascript, Go, C, SQL, HTML, CSS

Frontend Technologies: React, NextJS

Backend Technologies: Express, Docker, Kafka, MySQL, MongoDB, Flask

Machine Learning: PyTorch, Numpy, Pandas, Matplotlib

Projects

Trip Assistant | Python, Flask, SQLAlchemy, HTML, CSS, Javascript

October 2022 – December 2022

- A flight booking application built with Flask
- Implemented core logic for the flight booking process and wrote the flight booking page using Javascript, HTML, and
- Designed application database schema and implemented the schema using SQLAlchemy
- Served as technical lead and oversaw the entire development process

Graph Analytics With Flink StateFun | Java, Flink, Kafka, Docker

February 2022 – May 2022

- A graph analytics application built with Apache Flink Stateful Functions
- Implemented a set of graph queries API that can be used to perform general graph analytics on connected temporal graphs
- Fully utilized the functionalities of Flink Stateful Functions and Kafka message queue to process streaming graph data and simplified application deployment using Docker

Automatic Waste Detection | Python, PyTorch

February 2022 – May 2022

- · A research oriented project based on the ZeroWaste dataset, exploring different object detection models and optimization techniques on waste material detection in images
- Explored and fine-tuned three major models: YOLOv4, YOLOR, and Dynamic R-CNN
- Implemented optimization techniques like Mosaic, Mixup, Dropblock regularization etc. and significantly improved model performance
- Best result achieved 62.1 in AP, 74.2 in AP50, and 67.7 in AP75, which was better than the result gotten by the original authors of the ZeroWaste paper