Hao Yang

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EDUCATION

University of Southern California, M.S. Data Science

Dec 2022

Case Western Reserve University, B.S. Computer Science

June 2020

TECHNICAL SKILLS

- Python | Java | C++ | JavaScript | TypeScript | MySQL | Shell | Yaml | JSON
- Node | Express | React | Angular | Vue | Next.js | jQuery | Git | Django | Flask | Docker | Postman | Terraform | AWS | S3 | GCP | Pytorch
- English, Chinese (Mandarin, Cantonese), Japanese All professional proficiency or above

WORKING EXPERIENCE

DrLambda(ChatSlide AI)

Remote

Full-stack Engineer

Oct 2023 - current

- Designed and implemented key microservices of the application using Python, Flask, and AWS EC2, enhancing user experience. Led to a 54% rise in site traffic and 32% increase in revenue in the first quarter.
- Designed and constructed the robust frontend for the WebUI using AWS Amplify, React, JavaScript, TypeScript, and Next.js, optimizing application performance through code refactoring. Achieved 28% increase in speed.
- Integrated LangChain with search engine wrappers to dynamically scrape data based on user input and return accurate responses, leveraging natural language processing to provide relevant and timely information.
- Leveraged PostgreSQL and AWS S3 for robust data storage solutions, optimizing database performance and ensuring reliable data retrieval for various application needs. Set up Retool to streamline database management and querying.
- Developed RESTful API endpoints to facilitate Create, Read, Update, and Delete (CRUD) operations with PostgreSQL. Employed Postman for API testing, ensuring the reliability and functionality of API endpoints. Utilized API Gateway to manage API endpoints and integrate with backend services.
- Wrote shell scripts in Linux to automate deployment processes, ensuring consistency and reliability across all deployment stages.
- Implemented AWS CodePipeline for continuous integration and deployment, automating testing, building, and deployment of code
- Worked collaboratively across departments, including the AI team, UI/UX team, and PM team, to ensure the successful delivery of impactful solutions and products. Utilized Jira for task management and Figma for design collaboration.
- Key Skills: Python, Flask, LangChain, SQL, EC2, S3, Amplify, React, JavaScript, TypeScript, Next.js

Baynovation

San Jose, CA

Software Engineer Intern

Dec 2022 - Oct 2023

- Designed and developed a robust full-stack search engine utilizing Python Flask and AWS, catering to keyword search requirements within a dataset.
- Implemented RESTful API endpoints to facilitate Create, Read, Update, and Delete (CRUD) operations against MySQL, ensuring efficient data management.
- Engineered a reverse indexing mechanism within the Flask server to enhance search latency, enabling support for multiple keywords and common phrases.
- Conducted extensive testing using **Postman** to validate the functionality and performance of API endpoints.
- Key Skills: Python, Flask, MySQL, S3, GitHub, Postman

Data Engineer Intern

YAMI

Brea, CA

June 2022 - Sep 2022 Train and fine-tune machine learning models to accurately predict the optimal size of shipping boxes for Yamibuy products. By

- leveraging machine learning techniques, successfully improved prediction accuracy from 42% to 68%. This enhancement in prediction accuracy led to a significant reduction in labor and material costs, estimated at approximately 12%.
- Implemented an ML system and modeling approach to address the packing problem, focusing on optimizing packing efficiency and reducing waste through the redefinition of prediction classes and fine-tuning of the model.
- Designed and built an Extract, Transform, Load (ETL) pipeline for logging customer and transaction data. This pipeline facilitated the efficient processing of critical business data, enabling data-driven decision-making and enhancing overall operational insights.
- Key Skills: Python, MySQL, Pandas, Numpy, Sklearn, Pytorch, React, JavaScript, TypeScript, GitHub, d3.js