Chiqu[chi-ko] Li

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ABOUT

Passionate, intuitive, and result-driven developer with a vast array of knowledge in front-end and back-end, responsive frameworks, databases, and best code practices.

EXPERIENCE

Software Engineer   03/2021 – Current
Lifion ADP   *Atlanta, GA*

- Designed and implemented a scalable bulk compensation action architecture in a global HCM **Microservice** system based on **Python**. Adopted **parallel query** processing to reduce runtime. It empowers **thousands of HRs** to do Bulk New Hire, Job Change, and Upload Compensation efficiently.
- Reduced front-end load time by **45%** through **API optimization**, **SQL** , and front-end structure reorganization. Ensure real-time access to data and accelerate query performance to **60%**.
- Built **ETL** process, which reads **Message Queue**, validates data format, and enriches data context.
- Responsible for designing compensation feature for Amazon PillPack HCM project, building backend from scratch and coordinating **cross-team** collaboration with Solution Architects. It provides Amazon with solid and reliable HCM solutions for **3000+** employees.
- Worked with software development test engineers to fully automate application testing and created **UI tests** to enhance product release quality.
- Provided team leadership by working closely with the product owner, UX and architects to drive both product insight and **full-stack** change.

Software Engineer Intern   05/2020 – 09/2020
Gridology   *New York, NY*

- Redesigned and implemented **Django PostgreSQL** database, managed server by AWS Lightsail and optimized the performance of the website.
- Created multiple **RESTful** API, data update and extraction speed increased by **50%**.
- Designed **web crawlers** on multiple university websites through Beautifulsoup and selenium, improved the scraping efficiency by **60%** and deployed it on the server for automatic crawler and data analysis.

PROJECTS

Intelligent Door System | *Python, React, AWS, DynamoDB, Lambda, CloudWatch*   07/2020 – 09/2020

- Established a distributed system in AWS with DynamoDB, Lambda and API Gateway aiming to give access to visitors by recognizing faces and notifying owners.
- Designed React portal for visitors/owners and integrated two web pages with API and Swagger.
- Processed streaming video by Kinesis Video Streams and sent SMS requesting.

EDUCATION

Columbia University   New York, NY
Master of Science in Mechanical Engineering (Robotics)   *08/2019 – 12/2020*

Wuhan University   Wuhan, CN
Bachelor of Science in Power System   *08/2015 – 05/2019*

TECHNICAL PROFICIENCY

Languages: Python, Java, JavaScript, C/C++, SQL, HTML/CSS, Linux Shell
Frameworks: Django, React, Node.js, Flask, Springboot, Docker, JUnit, Restful, Kafka, Spark, MySQL, PostgreSQL
Developer Tools: AWS, Git, Docker, GCP, PyCharm, Visual Studio, IntelliJ
Courses: Advanced Software Engineering, Cloud Computing, Database, Algorithms, Deep Learning