

Linghao Zhang

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Education

The Pennsylvania State University

College of Engineering

- Major: Computer Science
- Minor: Korean
- Academy of Korean Studies Scholarship 2021
- College of Engineering Scholarship 2021

University Park, PA, US

Aug 2018 - Sep 2022

GPA: 3.24

Dean List: FA2018 SP2021

Work Experience

Beijing Wanmei Creative Technology Co., Ltd.

Beijing, China

Backend Developer Internship

May 2021 - Aug 2021

- Developed a data synchronization open-source Java project using the Quarkus framework with Kafka and Debezium, that supports automatic data parsing and transformation between different databases including: MySQL, PostgreSQL, and Elasticsearch. Project link: [neuron](#).
- Implemented concepts like compiler construction, functional programming, and enterprise level OOP throughout project.
- Took charge of optimizing the admin management site which was written in Python Django. Helped improve the db query speed to collect 22% more customers' data at product manager's convenience.
- Helped with maintaining daily DevOps mainly using python scripts, including but not limited to: troubleshooting database errors during project collaboration with different teams, and checking invalid user transactions due to server issues.

Skills & Coursework

Coursework: Operating Systems, Intro to Theory of Computation, Data Structures and Algorithms, Programming Language Concepts, Computer Vision, Intro to Artificial Intelligence, Communication Networks, Intro to Systems Programming.

Skills: Python, Java, C/C++, React, JavaScript, TypeScript, UNIX, AWS, Docker, SQL, Scikit Learn, Tensorflow, Matlab, Git.

Languages: Native in Chinese, fluent in English, sufficient Korean, basic Hebrew.

Individual Projects

eCommerce site(demo)

Virtual

React & Django

Aug. 2022 - Dec. 2022

- Developed an electronic products ecommerce web application using React.js and Python Django.
- Implemented Redux Flow for state management, rest API framework for serving & fetching data from Django, and User authentication for both frontend and backend. Project link: [Ecommerce](#).

microservices

Virtual

Java Spring

Dec. 2022 - Present

- Built and deployed a backend micro-service architecture that implemented individual deployment and distributed development systems using Spring boot, docker, k8s. Project link: [microservices](#).
- Achieved a set of processes to verify authenticity and register users with notification pushbacks. By implementing design ideas like individual services and databases, asynchronous requests, and kafka message queue, improved the architecture stability by 45%, and provide services across multiple availability zones at the same time.

Concurrency Lab

University Park, PA, US

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Jan. 2022 - May. 2022

- Built a model for synchronization via message passing that can have multiple senders and receivers referencing it at any point of time.
- Achieved a whole set of API features including synchronous/asynchronous sending and receiving, and selecting the possible channels to invoke sending or receiving operation by a combination of low-level locking approaches that are mutex locking, semaphore, and conditional variables.