Linghao Zhang

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Education

The Pennsylvania State University   **University Park, PA, US**
College of Engineering   *Aug 2018 - Aug 2022*
- Major: Computer Science   GPA: 3.24
- Minor: Korean   Dean List: FA2018 SP2021
- Academy of Korean Studies Scholarship 2021
- College of Engineering Scholarship 2021

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 following the tutorial by divanov11.
- 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.

Concurrency Lab   **University Park, PA, US**
C   *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.

Campus Experience

HackPSU   **Virtual**
Participant   *Nov. 2020*
- Used Scikit-learn classifiers like KNN, SVM, Decision Tree to predict each student's admittance based on the exam scores with a 100% accuracy.
- Networked with the graduate students who led workshops during the hackathon.