

# 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 - Aug 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 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

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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.

## 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.