

EDUCATION

Carnegie Mellon University

Master of Science in Electrical and Computer Engineering (ECE) May 2022

- Coursework: Foundations of Computer Systems, Machine Learning in Production

University of Illinois at Chicago (UIC)

One-year Exchange Program at ECE Department May 2019

- GPA: 4.00 / 4.00
- Coursework: Operating System Design & Implementation, Computer Organization, Software Design, Programming Language Design, Pattern Recognition

East China University of Science and Technology (ECUST)

Bachelor of Engineering in Electrical Engineering July 2019

- Ranking: 1 / 61; Overall GPA: 3.84 / 4.00; Major GPA: 3.95 / 4.00
- Coursework: C, Python, Discrete Math, Data Structure & Algorithms, Software Engineering, Database, Artificial Intelligence, Optimization Methods, Embedded System

WORK EXPERIENCE

Company1

Software Engineering Intern Mar. 2020 - Sept. 2020

- Worked on an initiative to centralize and optimize the palletization process.
- Developed an iPad App using **Swift** that integrated with SAP Cloud and on-premise SAP system.
- Built a game that gamifies the palletization process for learning and training using **Unity** and **C#**.
- Worked with a matrix team distributed across locations (Shanghai, Singapore, US); presented to senior executives.

Company2

Software Engineering Intern Oct. 2019 - Mar. 2020

- Participated in agile development and contributed 20+ new features to the Financial System.
- Created **RESTful APIs** with **Java Spring** and web pages with **React**; managed projects with **Maven**.
- Built a set of **Python** scripts to automate repetitive tasks, such as journal validation and data fixing.

Company3

Software Engineering Intern July 2018 - Aug. 2018

- Worked on data collection for a stock analysis system that estimates the risk of trading strategies.
- Designed and implemented a pipeline to crawl, clean, format, and store about 43 million stock records using **Python Scrapy** and **MySQL**.

PROJECTS

Electroencephalography (EEG) Classification using Deep Learning

Research Assistant

- Implemented a Convolutional Neural Network (**CNN**) to classify EEG signals and predict which character was stared at by disabled subjects.
- Trained this network using **Python Keras** and achieved 91% test accuracy on the BCI Competition III dataset, which outperformed tradition LDA methods by 8%.

Operating System Core Functions Implementation

CS803 Project

- Built OS functions in **XV6** (a Unix-like x86 OS) using C and X86 Assembly, debugged with GDB.
- Implemented Functions: bootloader, console driver, graphics driver, memory and page management, '/proc' virtual file.

SKILLS

Programming: C, C++, C#, JavaScript, Matlab, Python

Framework / Library: Spring Boot, JUnit, React, Express, Django, Scrapy, Keras, NumPy, Unity

DevOps: Maven, Git, Docker, Kubernetes, Jenkins, AWS