

# Yifan Jiang

Email: yifan.jiang@duke.edu | Tel: (919) 864-6252

## EDUCATION BACKGROUND

### Duke University - Durham, NC

Aug 2022 - Expected in Jun 2024

Master of Engineering: Electrical And Computer Engineering

### Xi'an Jiaotong-Liverpool University - China

Sep 2018 - Jul 2022

Bachelor of Science: Information and Computing Science | GPA: 3.81/4.0 | IELTS: 7

**Courses:** Programming, Data Structures, and Algorithms in C++ | Java Programming | Advanced OO Programming | Software Engineering | Fundamentals of Computer Systems and Engineering | Algorithms | Advanced Data Structures | Networking | Operation System | Computer Graphics | Computer Systems | Technologies for E-Commerce

## WORK EXPERIENCES

### Software Engineer Intern (*Vue.js, uni-app, Layui*)

May 2023 - Aug 2023

#### Advanced Institute of Information Technology, Peking University - Hangzhou, China

- ◇ Led the development of a front-end UI for a power supply e-commerce website using **Vue.js**. Implemented various features including search, query, intelligent recommendations, login/registration, and pagination.
- ◇ Practiced Agile methodologies to collaborate with the back-end team for interacting with RESTful APIs and with the product team for aligning project requirements from customers.
- ◇ Integrated the developed website into other projects, resulting in a launch with a user base exceeding **10,000** in a few months and a **80%** increase in web traffic.

### Frontend Engineer Intern (*AngularJS*)

Jun 2021 - Sep 2021

#### Hangzhou Hikvision Digital Technology Co., Ltd. - Hangzhou, China

- ◇ Employed **AngularJS** to add website features based on customer requirements. Optimized the monitoring system of Starbucks and implemented a mask detection feature, resulting in a substantial improvement in safety protocols.
- ◇ Deployed the system across **500** stores, covering approximately **10,000** daily visitors. Achieved a remarkable adoption rate, with an impressive **95%** of users actively engaging with the mask detection functionality. Involved in the development of engineering tools and improvement of infrastructure components

## PROJECTS

### Risk Game (*Java, TCP Socket, Multi-Thread, JSON, CI/CD, Docker*)

Feb 2023 - Apr 2023

#### Developer | Duke University - Durham, NC, US

- ◇ Developed a game which enables users to attack territories and obtain resources, move and upgrade soldiers with other players. Developed backend server with Java and frontend UI with JavaFX and MVC.
- ◇ Added concurrency to deal with multiple players. Used **TCP socket** and **JSON** for Server-Client communication.
- ◇ Developed graph algorithm to implement path generation and resource allocation in game-world in better ways.
- ◇ Applied Agile methodology, carried out issue tracking and **CI/CD** pipeline, drew UML diagram and prototype.

### Ride Sharing Service Web-App (*Python, Django, PostgreSQL, Docker*)

Jan 2023 - Feb 2023

#### Developer | Duke University - Durham, NC, US

- ◇ Developed a full-stack web application modeling Uber system with **Django** and **PostgreSQL**.
- ◇ The web-app enables users to login/logout, request/search/select/drive for/join in rides, change/view order status.
- ◇ Built user-friendly web-page with CSS, HTML and **Bootstrap** Library and used **Docker** for web-app deployment.

### Design and Development of 3D Reconstruction System for the Embedded System

Sep 2021 - Jun 2022

#### Developer | Final Year Project, XJTLU - Suzhou, China

- ◇ Applied single/binocular cameras to identify objects and measure the object distance on the NVIDIA Jetson Nano platform. Built a deep neural network model to detect the object and estimate the object distance
- ◇ Implemented graph algorithms to generate territory connections and resource allocation in game that maps to the real world

### On Campus Social Network System (*Vue.js, AJAX, MySQL, Redis*)

#### Group Leader | Software Engineering Group Project, XJTLU - Suzhou, China

Mar 2021 - Jun 2021

- ◇ Developed a social network system with search, filtering, and realtime chat features
- ◇ Implemented frontend based on **Vue.js** and communication with backend using AJAX over WebSockets
- ◇ Developed recommendation algorithm based on PyTorch to automatically recommend topics and people of interest to users according to their preferences

## SKILLS

**Programming Languages / Software Development:** Java | Python | C | C++ | MySQL | Postgres

**Front-End Programming Languages and Frameworks:** HTML5 | CSS3 | SASS | JavaScript | Vue.js | AngularJS