



**Luxin Zhang**  
Computer Engineering  
Application Development  
Duke University

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## EDUCATION

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### Duke University

2021-2023, Durham, NC

Master's Degree - ECE

Related Courses: Systems Programming and Engineering, Software Engineering, Random Signals and Noise

### Stony Brook University

2018-2021, Stony Brook, NY

Bachelor's Degree - AMS (Applied Mathematics and Statistics)

GPA: 3.84

Dean's List: 2019 - 2021, Magna Cum Laude Honor

Related Courses: Intro to Object-Oriented Prog, Quant Finance, Mathematical Statistics, Data Analysis

## TECHNICAL SKILLS

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**Programming Skills:** Java, C++, Python, C, R, JavaFX, HTML5, CSS3, JavaScript, SQL

**Frameworks:** Angular 15, Django, Django + Rest, React, Expo

**Others:** VS Code, IntelliJ Idea, Git, Gitlab, Axure, Tableau, MongoDB, Linux, CI/CD, PostgreSQL, Dockers

## EXPERIENCE

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### Duke University Pratt School of Engineer

May 2023 - Aug 2023

Software Development(Intern) - Led a team to Design **Xref** Platform with Django Rest and React

Durham, NC

- Leveraged **Nginx** as a strategic web server, enhancing application performance through refined web traffic management, fortified by HTTPS encryption using **Certbot** and **HTTP authentication** for security
- Configured a **Docker** environment for automated deployment actions and established both development and production stages deployment setups

### Vivo Communication Technology Co. Ltd.

Mar 2022 - Jul 2022

Software Development(Intern) - Built Image Automated Testing Platform and implemented Algorithms

Shenzhen, CN

- Developed and maintained an Automatic Image Evaluation Platform using **Python** to ensure highly reliable performance, resulting in significant time **savings of 2 man-hours per week** for image evaluation
- Used OpenCV, Yolo5, HED, and68-point face extraction to optimize the Image Sharpness Algorithm and increased the accuracy of Image Clarity evaluation from **63% to 82%**

### Suzhou Shengjing Information Technology Co. Ltd

Mar 2022 - Jul 2022

Software Development(Intern) - Building Marketing Support Platform using Java Framework

Suzhou, CN

- Developed Marketing Support Platform using Java's Ruoyi framework(SpringBoot-based), ensuring robust performance for a user scale of 10,000
- Designed the prototype using **Axure**, applying principles of Figure-Ground and Focal-Point **UX/UI** to create an intuitive and visually appealing **user interface** on both mobile and desktop devices

### Tik Tok

May 2021 - Jul 2021

Data Analytics(Intern) - Monitored TikTok's Learning System and analyzed data

Beijing, CN

- Improved the CQC department's data analysis efficiency **from one day to one minute** by optimizing algorithms using R
- Analyzed and visualized over **30,000** pieces of data on learning systems using **Tableau and R**, effectively connecting multiple cities and providing evidence-based recommendations for system improvements

## PERSONAL PROJECTS

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### RISC Game

Feb 2023 - Apr 2023

Team Project: A Web Application Game that uses Java, JavaFX, MongoDB with server and two clients

- Structured **Microservice-based Architecture**, ensuring program's scalability and maintainability
- Deployed a **Network Game** project with one server and two clients, using **CI/CD** for automated testing, ensuring seamless integration and reliable deployments
- Practiced effective source code **version control** on **GitLab**, utilizing issues, feature branches, **pull requests**, and **code reviews** maintain code quality

### Go Traveling

May 2023 - Jul 2023

Finish Individually: An IOS application for travel using the React Native Expo framework

- Seamlessly integrated **Google Map endpoints** through Rapid API, streamlining the search process for accommodations, points of interest, and dining options
- Designed an intuitive User Interface by harnessing the power of **Tailwind CSS**, while elevating the visual experience through **React Native Animation** techniques