



# BEIJIA WANG

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**Availability:** Onsite Internship (Jan-Aug 2024, STP, non-credit form NUS);  
Full-Time Employment from Jan 2025 (requires EP for Singapore).

## EDUCATION

### National University of Singapore

Master of Computer Engineering

Aug. 2023 – Jan. 2025

Singapore

### Beijing University of Posts and Telecommunications

Bachelor of Internet of Things Engineering, **First Class**

Sep. 2019 – Jul. 2023

Beijing, China

- **GPA:** 86/100(Top 20%). Awarded scholarship, outstanding student for 4 years.

## CORE COMPETENCE

System Design	Software Development	Data Management	Programming	Data Analysis
Prototype Design	Project Management	Communication	Corporation	Problem Solving

## WORK EXPERIENCE

### Xiaomi Corporation – Autonomous Cars Department

Mar. 2023 – Jul. 2023

Software Develop Engineer Intern

Beijing, China

- Architected and implemented logical framework for Vehicle Reservation & Management platform with **Django**.
- Integrated four distinct visual tools into the Xiaomi Scenario Viewer(MiSV), which is designed to monitor and analyze vehicle safety information in different scenarios.
- Developed the UI with **Figma**, tracked up the product progress, arranged the meeting for product development.

### Beijing Key Lab of Intelligent Telecommunication Software and Multimedia

May. 2021 – Aug. 2022

Software Develop Engineer Intern

Beijing, China

- Engineered backend for E-Parking system using **Django**, facilitated communication with Android/web modules and maintained **MySQL** database for parking and user data.
- Led a 20-member team, steering project execution and drafted a comprehensive business plan.

### ByteDance – Data Department

Jan. 2022 – Apr. 2022

Software Development Engineer in Test Intern

Beijing, China

- Studied over 10 types of advertising and the logic of advertising, analysed the anomalies existing in MR Pipeline.
- Wrote automated test code, accomplished 20 requirements and made 10% improvement for the test.

## PROJECTS

### Vision Transformer for Underwater Image Enhancement | Pytorch, Transformer

Sep. 2022 – Jul. 2023

- Developed an innovative underwater image enhancement algorithm using ViT in Pytorch, effectively addressing issues like color cast and detail blur.
- Replicated 3 existing models, trained and tested the suggested model, proving its efficacy on 6 datasets.

### Forest Management Optimization for Maximum Carbon Sequestration | Python, SPSS

Feb. 2022 – Jun. 2022

- Analyzed over 5,000 data points to discern the correlation between deforestation rates and carbon sequestration, employing Python and SPSS for data processing and analysis.
- Developed a logistic regression model to devise strategies for maximizing forest carbon sequestration while ensuring sustainable economic benefits.

### Intelligent Home Management System | JavaFX, MySQL, HTML, CSS, LaTeX

Jul. 2021 – Oct. 2021

- Established backend architecture using the **MVC** and authored comprehensive interface documentation.
- Configured MySQL database for real-time data integration from hardware, successfully developed and tested key back-end modules including user login, device management, order processing, and data visualization.

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C#, HTML/CSS, JavaScript, SQL, Matlab

**Developer Tools:** Git, VS Code, Eclipse, Google Cloud Platform, Latex, Sketch, Figma

**Technologies/Frameworks:** Linux, GitHub, Cloud computing

## CO-CURRICULAR

### Innovation and Entrepreneurship Centre

Oct. 2019 – Jun. 2022

President

Beijing University of Posts and Telecommunications

- Managed more than 400 members for 3 consecutive years. Discovered and cultivated 15 backbones.
- Coordinated 3 national innovation competitions, and organized visits to Lenovo and other large internet companies.