

# Apple Sun

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## EDUCATION

### Carnegie Mellon University

*Master of Engineering in Mobile and Internet of Things*

Pittsburgh, PA

August 2023 - March 2025

### Beijing University of Technology

*Bachelor of Engineering in Internet of Things*

Beijing, China

September 2019 - June 2023

## INTERNSHIP EXPERIENCE

### ByteDance

July 2022 - January 2023

*Software Engineer Intern, AI-Lab Robotics*

- Agile development and maintenance front-end across 3 platform using **React+typescript**, **Redux** for state management, and prototyping design through **Figma**.
- Implemented 3+ features such as Delivery Time Prediction and Location Management, improving punctuality rate by 30%, reducing manual interventions to 0.
- Standardized the mailroom database using **MySQL**. Utilize **Django ORM** and **RESTful APIs** to integrate with backend, increased daily deliveries from 100 to 2700.
- Designed a user-friendly elevator-ride methodology that combines **SLAM+RGB-D**, reducing the number of manual interventions to 10 per week (75% reduction in failure rate).
- Improved robot-user interaction: displayed robot emotions and established a 27-state voice interaction logic.
- Conducted data analysis using **abtest** on conversion rate studies, and doing user research by survey and interview to iterate and refine features. Managed the Meego platform, overseeing project releases and coordination.

### WULA

May 2019 - Present

*Part-time Software Engineer Intern, School Startup*

- Designed and launched a community network weapp based on **Taro** for college students to connect with alumni. Implemented and maintained front-end using reusable **Vue Native** components and created **RESTful APIs** to integrate with the **Flask** backend.
- Leveraging proficiency in prototyping and user interface design using **Figma**, animation using **Adobe AE**. Enhanced the UI/UX and launched product in 17 countries, attracting more than 8,000 active users

### China Software & Technology Services co. LTD

June 2020 - August 2020

*Software Engineer Intern, Artificial Intelligence Laboratory*

- Contributed to a low-code platform which can quick drag-and-drop ML algorithm components to build and deploy complete AI prediction process. Scoped projects and improved UI/UX by addressing user pain points.
- Boosted platform performance by adding 3 features like model preview and smart module recommendation developed with **HTML**, **CSS**, and **JavaScript**. Shorten user session duration by 20s in a single data use case.

## RESEARCH EXPERIENCE

### Lab of Biomechatronics and Intelligent Robotics(BIRO)

November 2022 - December 2022

*Research Trainee*

*NC State University, NC*

- Utilized **PyTorch** on Ubuntu to analyze knee's exoskeleton-assisted movement, identifying optimal stiffness for wearable robot development.
- Employed Python for Cassie bipedal robot's control and training optimization.

### Institute of Computing Technology

September 2022 - April 2023

*Research Assistant*

*Chinese Academy Of Sciences, China*

- Participated in the design and development of an user-centered AR-assisted interaction systems with a focus on fine-grained manipulation of resources across multiple displays
- Utilized Unity 3D and **Unity MRTK** for XR operations, and leveraged the capabilities of HoloLens 2 for full virtual reality manipulation across displays. Enable UI elements to be offloaded onto HoloLens 2.

## TECHNICAL SKILLS

**Programing:** Java, Python, JavaScript, HTML/CSS, SQL, C/C++, C, Verilog, R, MATLAB, SQL, Bash

**Frameworks:** React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

**Media Document Processing:** Adobe Illustrator, Adobe Photoshop, Adobe InDesign, Figma, Rhino

**Developer Tools:** Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse