

Jingqi Wu

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SUMMARY STATEMENT

Seeking an intern Software engineer / Data Engineer position starting from June 2025. Computer Science / Information System student with 3 years of project experience in various areas, including Machine Learning, Mobile Development (Android Studio with C++ and Java), Software Development (Python), Database and Arduino IDE. Strong knowledge of computer science, mathematics and statistics, and solid programming skills in Python, C++, Java, Java Script, MySQL and MATLAB, hands-on experience with Android Studio, Arduino IDE and Flask.

EDUCATIONAL EXPERIENCES

Boston University

Boston, MA

Master's Degree in Information Systems

Sep. 2024 – Dec. 2025(Expected)

- **Main Courses:** Web Application Development, Advanced Programming Technique with Java, Database Design and implementation for Business, Information Structures with Python, IT Strategy and Management.

Chinese University of Hong Kong, Shenzhen

Guangdong, China

Bachelor of Science, Computer Science

Sep. 2020 - Jun. 2024

- **Main Courses:** Machine Learning, Fundamentals of Artificial Intelligence, Parallel Programming, Software Engineering, Database System, Data Structures, Computer Networks, Computer Architecture, Operating System, Introduction to Computer Science: Programming Paradigms, Numerical Methods, Discrete Mathematics, Optimization, Linear Algebra.

INTERNSHIP EXPERIENCE

Xiaomi Corporation in Shenzhen

Guangdong, China

Software Engineer of Display Technology Group

Jul. 2022 – Sep. 2022

- Proficient in the **Android Surface display framework**.
- Responsible for the development and maintenance of the **Native framework's** drivers and software.
- As a group member of a **lag issue** caused by the **VSync thread**, refined the rendering pipeline using **multi-threading techniques**, and improved the lag issue, **restoring the refresh rate from around 30 to the normal value of 120**.

RESEARCH EXPERIENCE

Security of SmartDeviceLink (SDL) in Automotive Systems

Boston, MA

Research Assistant

Jan. 2025 – Present

- Deployed **SDL Core** on **Ubuntu**, developed an **Android App** using the **SDL** to connect mobile and in-vehicle systems.
- Developed software under the **Xposed framework** to **hook** third-party applications for security detection.

A Reinforcement Learning-Based Automatic Video Editing Method Using the Knowledge from Vision-Language Model – formal research published in ACMMM 2023

Guangdong, China

Research Assistant

Sep. 2022 – Jun. 2023

- The **algorithm** integrates **RL** and **VLMs** to enhance general video editing beyond **scene-specific methods**
- Developed software with **Python** to collect training data from multiple volunteers to **train personalized models**.
- Deployed the model on the **Ubuntu server**, developed both **server-side and client-side software with Python**.
- Decode the monitor videos' **RTSP flows** via **IP addresses**, allowing the server to control the client's video window.

Development of reforming Autonomous Sailboat - Interest-Based Research Activity

Guangdong, China

Participant

Jun. 2022 – Sep. 2022

- With **Arduino** platform (C++), accelerometers and other sensors, the sailboat **automatically adjusted** its sailing direction.
- **Flask** for the **front-end**, through a **Wi-Fi module**, allowed **manual control** of the sailboat's sail angle and motor speed.

HONORS AND AWARDS

- The Chinese University of Hong Kong, Shenzhen - Bo Wen Scholarship 2020-2024
- Top 1% of AMC 10 and Top 5% of AMC 12 (**AMC: The American Mathematics Competition**) 2019

SKILLS

Programming Languages: Python (Best), C++, Java and Java Script (Familiar), MATLAB (Well), Verilog (Good)

Database and data analysis Tools: MySQL, PostgreSQL (Best), Excel, Pandas, NumPy (Familiar)

Framework and Platforms: Node.js, HTML & CSS (Familiar), jQuery, Flask (Well)

Languages: Mandarin (Native), English (Fluent)