

## Jingqi Wu

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### EDUCATIONAL EXPERIENCES

#### Boston University

Boston, MA

M.S. in Information Systems – GPA: 3.7 / 4.0

Expected Dec 2025

- *Relevant Coursework:* Web Application Development; Software Design; Java Programming; Database Design

#### The Chinese University of Hong Kong, Shenzhen

Guangdong, China

B.S. in Computer Science – GPA: 3.5 / 4.0

Graduated Jun 2024

- Bo Wen Scholarship (Top 5% Students), Waterloo Math Fermat Contest (Perfect Score), AMC 10 (Top 1%), AMC 12 (Top 5%)
- *Relevant Coursework:* Machine Learning; Artificial Intelligence; Software Engineering; Parallel Programming

### WORK EXPERIENCE

#### Hooli Home USA (Real-Estate Technology)

Boston, MA

Data Analyst Intern

Feb 2025 - Present

- **Managed a 50 k + record database** of property, sales, and customer data; improved the tool (*Python*) to import housing-listing data from Excel into the database; optimized schemas and queries with to reduce redundancy and shrink storage costs by **13 %**.
- **Refined buy-sell-rent classifications** (*MySQL*) that cut colleagues' property-search time by **20 %**.
- **Built a churn-prediction model** (*NumPy*) that flagged at-risk tenants with **73 %** precision, enabling targeted campaigns that improved retention by **8 %**.

#### Xiaomi Corporation (Fortune Global 500)

Guangdong, China

Display Technology Group, Software Engineer Intern

Jul 2022 - Sep 2022

- **Re-architected the Android SurfaceFlinger rendering pipeline** (*C/C++ · JNI · Android Studio/AOSP*) to eliminate a VSync-thread bottleneck; restored refresh-rate stability from **~30 Hz to the target 120 Hz** on flagship MIUI devices.
- **Diagnosed & patched one important critical display bug for upcoming flagship models**; optimized framework-level display drivers for Qualcomm SoCs, collaborating with kernel, graphics, and QA teams to unblock release milestones.
- **Mapped and documented the Android SurfaceFlinger/Surface framework call-chain**; produced a **20-page** study report that was adopted as Excellent Onboarding Material and commended by the team lead.

### RESEARCH EXPERIENCE

**Security of SmartDeviceLink (SDL) in Automotive Systems** – EAI Intelligent Transportation Conference 2025 **Boston, MA**

Java · Android Studio · Node.js · Ubuntu Server · Xposed · WebSocket – [Link](#)

Research Assistant, Boston University

Jan 2025 - Present

- **Port and configure SDL Core on Ubuntu 20.04**; build a companion demo that streams real-time telemetry between smartphones and a simulative in-vehicle HMI (*Node.js*), enabling **<200 ms** round-trip latency in bench tests.
- **Author an Xposed-based hooking toolkit** to spoof geolocation in third-party apps (*Java / Android Studio*).
- **Design and execute 2 penetration scenarios** (Compromised Mobile System and Man-in-the-Middle Attack); uncover 7 critical vulnerabilities and propose counter-measures adopted in the paper.

**Automatic Video Editing Method with Vision-Language Model** – ACMMM 2023

Guangdong, China

Python · PyTorch · WebSockets · Docker · TorchServe micro-services · AWS EC2 multi-GPU cluster · RTSP – [Link](#)

Research Assistant, The Chinese University of Hong Kong, Shenzhen

Sep 2022 - Jun 2023

- **Engineered a distributed Python data-collection service** (*WebSockets + RabbitMQ*) that streamed **≈ 18k annotated editing actions** from **40 volunteers** to a **4-GPU EC2 cluster** in **under 10 hours**.
- **Containerized training and inference with Docker/TorchServe** and shipped them as micro-services on an Ubuntu cloud node; a *REST/gRPC* backend and a *WebSocket* client scale independently, supporting rolling updates.
- **Authored an RTSP-decoder micro-service** that resolves camera IPs, decodes multi-channel streams, and exposes a control API so the server can remotely open client video windows – maintaining **≤ 300 ms end-to-end latency**.

### SKILLS

**Programming Languages:** Python (Expert), C++ (Expert), Java (Expert), JavaScript, MATLAB, Verilog

**Machine Learning / Data:** PyTorch (Expert), PostgreSQL (Expert), MySQL (Expert), NumPy, Pandas

**Frameworks / DevOps:** Git (Expert), AWS EC2, Docker, Kubernetes, Node.js, Flask, gRPC, RabbitMQ, REST, RTSP

**Infra / Others:** Ubuntu Server (Expert), WebSocket (Expert), HTML & CSS (Expert), Android (AOSP, JNI), Xposed, jQuery