

# He (Harvey) Li

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## Education

**Georgia Institute of Technology** | GPA: in progress

Jul 2025 - Dec 2029

B.S. | Computer Science

Atlanta, GA

**First Year Semester Abroad - Oxford University, UK**

**Beijing Academy** | GPA: 4.29

Sep 2021 - Jun 2025

**High School** | N/A

Beijing, CN

## Experience

**Information Security Engineer**

May 2024 - present

Xiayu Network Technology Co., Ltd.

Guangzhou, CN, Remote

- Developed a hot-patching security module with advanced VM obfuscations using Assembly, C and Go.
- Reverse-engineered 5+ cracked Android app samples to upgrade the security module.

**Research Assistant**

Jan 2025 - present

Spatial Artificial Intelligence Lab, Sun Yat-sen University

Guangzhou, CN, Remote

- Assisted in research on latest Vision-Language-Action (VLA) models.
- Evaluated and optimized VLA models on dual-arm robot platform RoboTwin.

**Research Assistant**

Jan 2023 - Jun 2025

Institute for Artificial Intelligence, Peking University

Beijing, CN

- Proposed and led the research on lightweight LLMs and quantization techniques.
- Assisted in developing a novel HD image synthesis system during the collaboration with China Tower.

## Projects

**Birds Detection and Auto-Tracking System**

Sep 2022 - present

- Created algorithms to automatically track birds in images using PyTorch and Rust.
- Deployed and maintained the tracking system with 2000+ monthly users using Vue.
- Endorsed by The Beijing Wildlife Rescue and Rehabilitation Centre (BWRRC).

**Personalized High School Timetabling**

Sep. 2022 - present

- Initiated the project to optimize timetabling based on room distances, time suitability, and course difficulties.
- Proposed a flexible superset of the UCTTP, incorporating personalized objectives and constraints.
- Developed a multi-objective parallel optimization algorithm using Rust.

## Publications

Wenhao Chen, **He Li**, Shen Gang, Rundong Cao, Guojie Song, “Diff-Aware Fusion: Enhancing Fine-Grained Text Control in Reference-Guided Image Generation”, AAAI, 2026 (in progress).

**He Li**, Jianhang Hong, Yuanzhuo Wu, Snehal Adbol, Zonglin Li, “[Continuous Approximations for Improving Quantization Aware Training of LLMs](#)”, Arxiv, 2024.

**He Li**, Runsheng Sun, Tianlang Gao, “[Personalized Course Timetabling by Adaptive Multi-Objective Neighborhood Optimization](#)”, Computers & Operations Research, 2024.

## Skills

**Expertise:** Full-Stack Development, Deep Learning NLP, Malware Analysis, OS Internals, Network Protocols, Robotics

**Software:** SolidJS, React/Next.js, Vue.js, Database (PostgreSQL, MySQL), Redis, IDA Pro, Ghidra, Frida, PyTorch, OpenCV, Docker, Linux

**Languages:** Rust, C, Go, Assembly (x86, ARMv7 & ARMv8), Python, Java, Kotlin, TypeScript, Zig, Julia, Fortran (90/95), Lua, Nim, Bash