Jiayi Wang

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Education

Georgia Institute of Technology, Atlanta, GA, USA — Expected Dec 2026
B.S. in Computer Science
GPA: 3.7/4.0 (Major GPA: 4.0/4.0) | Dean's List (Every Semester)

Tokyo Institute of Technology, Tokyo, Japan — Oct 2024 – Jul 2025
Visiting Research Student, Advisor: Dr. Konstantinos Slavakis
Graduate level coursework: Complex Networks, Advanced Internet Applications, IoT

Work Experience

Narwal Robotics — June 2024 – September 2024
Software Engineering Intern – Robotics & App Development

- Implemented a multicast-based backup pairing mechanism, allowing robot connectivity when Bluetooth was unreliable (e.g., in congested Wi-Fi environments).
- Developed and optimized cross-platform mobile app features using Flutter, improving user experience and robot control efficiency.
- Designed and built an Accessible Mode from scratch, enabling visually impaired users to start, pause, end cleaning, switch devices, and check battery/routes—gaining deep insight into core app functions.
- Developed a real-time battery health diagnostic tool for the developer panel, assisting engineers with debugging and maintenance.

AI-Powered Digital Painting Platform — Feb 2023 – September 2024
Co-Founder, Full-Stack & App Developer

- Developed a user community website and backend for secure real-time communication and image transfer.
- Built backend architecture using WebSocket and cloud object storage (COS) to enable interactive collaboration.
- Created a TypeScript-based drawing application, translating UI/UX designs into functional components.
- **Designed and automated** a **CI/CD pipeline with GitHub Actions & Docker**, reducing manual deployment effort.

Projects

Game Development

- Android Dungeon Escape Game: Led development & Git management (Java, Kotlin).
- JavaFX-Based Wordle Variant: Supported custom word libraries (Java).
- GBA Flappy Bird Clone: Optimized rendering & collision detection (C, GBA).

Technical Skills

Languages: Python, Java, C/C++, JavaScript, SQL, MATLAB, Bash, Assembly
Frameworks & Tools: Django, Flask, Node.js, Pandas, Matplotlib, Git, Docker, CI/CD (GitHub Actions, Jenkins)
Areas of Interest: Machine Learning, Full-Stack Web Development, Developer Tooling, Data Analysis

Language Skills

English: Near native (TOEFL 116/120, ≈960 in TOEIC)
Japanese: Business level (JLPT N2)