HONG-LIN (AARON) WANG

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EDUCATION

University of Illinois at Urbana-Champaign   May 2026 (expected)
Bachelor of Science in Computer Science   GPA: 4.00 /4.00
Relevant Coursework: Data Structure, Computer Architecture, Probability and Statistics for Computer Science, Linear Algebra with Computational Application

EXPERIENCE

UIUC CS124 Honors - Intro to Computer Science I   Champaign, Illinois
Project Manager   January 2024 –Present
- Provide technical guidance and assistance to a team of students learning web development for the first time
- Plan and organize project timelines, work distribution, and goal adjustment
- Give tutorials on relevant technologies such as ReactJS, Bootstrap, Next.js, and other development tools
- Communicate with team members to adjust the project and workload according to their needs

EXTRACURRICULAR ACTIVITIES & LEADERSHIP

Pacbot Team UIUC   Champaign, Illinois
High-level Software Lead   September 2023 – Present
- Develop the high-level planning program for a robot that navigates a real-life replica of the classic videogame Pacman, which goes through a maze collecting pellets, running from ghosts, and maximizing score gain
- Develop an OpenCV computer vision system that locates the robot. The optimized vision pipeline was faster than the previously employed system and allowed robots to move at a faster speed while consistently tracked
- Organize the team's work distribution, work timeline, project planning, and other management tasks such as onboarding and documentation.
- Attended the Pacbot Competition at Harvard in 2024 and got first place

First Robotics Competition (FRC)   Taichung, Taiwan
Programming Advisor   June 2022 – June 2023
- Provided basic Java programming language training to the programming group members of the school FRC team through tiny lectures and discussion meetings, instructing up to 20 members
- Conducted additional skill workshops for members to learn about advanced topics in the robot's programming library

PROJECT HIGHLIGHTS

Totally Accurate Course Ratings   August 2024 – December 2024
- A web application that uses sentiment analysis to compute ratings for courses by analyzing comments collected from users. It also includes a crawler that scrapes websites like Reddit for comments on courses
- Used Next.js frontend, Bootstrap components library, Selenium crawler, Python NLTK library, Flask backend, PostgreSQL database, containerized via Docker and deployed to Kubernetes

Artemis – a carbon footprint app (JavaScript + Python)   October 2021
- Created a web application using ReactJS front end with Python Django backend that allows the user to record their carbon footprint and generates analytics according to the user's past data
- Achieved first place in web app development in the 2021 Taiwan Hackathon Jr.

TECHNICAL SKILLS

- **Programming Languages**: Java (Oracle Certified Associate, Java SE 8 Programmer), Python, JavaScript, C++
- **Frameworks/Tools**: Git, React, Next.js, Express.js, Node.js, Firebase, Bootstrap, OpenAI Gym
- **Spoken Languages**: Mandarin (native speaker) and English (bilingual proficiency)