

Roy Huang

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Summary

Full-Stack Developer with a strong foundation in hardware, software, and data science. Skilled in building intelligent applications using **AI/ML** technologies. Highly motivated **Self-Starter** who gets things done. Check out my projects on [GitHub](#) and connect with me on [LinkedIn](#)!

U.S. permanent resident - no sponsorship required.

Education

University of Iowa - MS, Electrical & Computer Engineering - GPA: 3.80/4.0	Dec. 2024
University of Iowa - BS, Electrical & Computer Engineering - GPA: 3.51/4.0	Dec. 2023

Technical Skills

Programming Languages: Python, JavaScript, Java, C++, SQL, R
Full-Stack: React.js, Node.js, Flask, PostgreSQL, Docker, Git, Linux
AI/ML: PyTorch, TensorFlow, OpenCV, Scikit-learn, Pandas, NumPy

Experience

Product Developer - Beijing OlymBall Tech. Dev. Co. - Created company website and online game demo to support marketing and user engagement - Designed core game mechanics that blended strategy and accessibility for a new board gam - Translated promotional and technical materials into English for international distribution - Installed interactive game tables for a retirement community in Onalaska, WI - Led in-person coaching sessions with U.S. clients to improve user experience and satisfaction	May 2022 - Present
Research Assistant - UT Southwestern & University of Iowa - Developed AI models (CNN, ViT, GANs) that improve early detection of retinal diseases - Created software tools for data visualization, model training, and performance evaluation - Collaborated with ophthalmologists to validate AI models and improve patient outcomes - Published research papers in top-tier AI/ML conferences and journals	Sep. 2024 - Mar. 2025
Teaching Assistant - University of Iowa - Led discussion sections for 200+ students, simplifying complex concepts for effective learning - Designed and graded exams, projects, and assignments, ensuring fair and consistent evaluation - Empowered students to succeed by providing personalized guidance and mentorship	Jan. 2023 - May 2024
Network Engineer Intern - Casey's General Store - Analyzed network data for 2,500+ stores using Python, optimizing store connectivity - Directed network upgrades for 40+ stores, communicating with store managers and IT teams - Created network diagrams and installation guides, ensuring easy deployment and maintenance	May 2023 - Aug. 2023