

# Roy Huang

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## Summary

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**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

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

## Technical Skills

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**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

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<b>Software Engineer / Product Developer - Beijing OlymBall Tech. Dev. Co.</b> - 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 - Contributed regularly since my early teens to this family-owned business led by my father	<b>Jul. 2016 - Present</b>
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<b>Research Assistant - UT Southwestern &amp; University of Iowa</b> - 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	<b>Sep. 2024 - Mar. 2025</b>
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<b>Teaching Assistant - University of Iowa</b> - 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	<b>Jan. 2023 - May 2024</b>
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<b>Network Engineer Intern - Casey's General Store</b> - 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	<b>May 2023 - Aug. 2023</b>
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