

# 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><br>- GPA: 3.80/4.0 | <b>Dec. 2024</b> |
| <b>University of Iowa - BS, Electrical &amp; Computer Engineering</b><br>- 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><br>- A family-owned business led by my father, where I contributed regularly since my early teens<br>- Created company website and online game demo to support marketing and user engagement<br>- Designed core game mechanics that blended strategy and accessibility for a new board gam<br>- Translated promotional and technical materials into English for international distribution<br>- Installed interactive game tables for a retirement community in Onalaska, WI<br>- Led in-person coaching sessions with U.S. clients to improve user experience and satisfaction | <b>Jul. 2016 - Present</b> |
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| <b>Research Assistant - UT Southwestern &amp; University of Iowa</b><br>- Developed AI models (CNN, ViT, GANs) that improve early detection of retinal diseases<br>- Created software tools for data visualization, model training, and performance evaluation<br>- Collaborated with ophthalmologists to validate AI models and improve patient outcomes<br>- 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><br>- Led discussion sections for 200+ students, simplifying complex concepts for effective learning<br>- Designed and graded exams, projects, and assignments, ensuring fair and consistent evaluation<br>- 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><br>- Analyzed network data for 2,500+ stores using Python, optimizing store connectivity<br>- Directed network upgrades for 40+ stores, communicating with store managers and IT teams<br>- Created network diagrams and installation guides, ensuring easy deployment and maintenance | <b>May 2023 - Aug. 2023</b> |
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