

Roy Huang

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SUMMARY

Product-minded **Full-Stack Developer** with a strong foundation in hardware, software, and data science. Skilled in building **AI/ML**-powered applications. Highly motivated **Self-Starter** who gets things done.

EDUCATION

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

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
Bilingual: Mandarin Chinese, English

EXPERIENCE

Software Engineer / Product Developer - Beijing OlymBall Tech. Dev. Co.	Jul. 2016 - Present
<ul style="list-style-type: none">- Created company website and online game demo to support marketing- Designed core game mechanics that blended strategy and accessibility- Supported U.S. expansion by translating materials and installing interactive game tables- Coached clients and contributed to product development as part of this family business	
Research Assistant - UT Southwestern & University of Iowa	Sep. 2024 - Mar. 2025
<ul style="list-style-type: none">- 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	
Student Worker - University of Iowa	Aug. 2020 – Aug. 2024
<ul style="list-style-type: none">- Fire Technician: Conducted routine inspections, maintenance, and testing of fire safety equipment- Network Technician: Assisted in setup and maintenance of network hardware and software- DEI Event Planner: Organized and executed events to promote an inclusive campus environment	
Teaching Assistant - University of Iowa	Jan. 2023 - May 2024
<ul style="list-style-type: none">- 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	
Network Engineer Intern - Casey's General Store	May 2023 - Aug. 2023
<ul style="list-style-type: none">- 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	