

Roy Huang

royhswe@gmail.com | +1 (608) 397-7178 | [GitHub: RoyH11](#) | [LinkedIn: royhuang11](#)

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, Express, Flask, PostgreSQL, MongoDB, Docker, Git, Linux
AI/ML: PyTorch, TensorFlow, OpenCV, Scikit-learn, Pandas, NumPy
Fully Bilingual: Mandarin Chinese, English

EXPERIENCE

Software Engineer / Product Developer - Beijing OlymBall Tech. Dev. Co. **Jul. 2016 - Present**
- 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**
- 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**
- 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**
- 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**
- 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