# 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.*

***U.S. permanent resident*** *- no sponsorship required.*

## 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**
- Built company website and interactive game demo to support marketing and user engagement
- Designed accessible, strategy-based game mechanics and contributed to product development
- Supported U.S. expansion through client coaching, material translation, and device installation

**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