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++, Assembly, SQL, R

Full-Stack: React.js, Node.js, Express, Django, Spring Boot, PostgreSQL, MongoDB, Docker, Git, Linux

AI/ML: PyTorch, TensorFlow, OpenCV, Scikit-learn, Pandas, NumPy

Fully Bilingual: Mandarin Chinese, English

EXPERIENCE

Professional Development - Freelance   Apr. 2025 - Present
- Practicing technical interviews and algorithm challenges in JavaScript, Python, and Java
- Learning React, Django, Spring Boot through online courses and reading technical books
- Developing full-stack projects to reinforce new concepts and turn ideas into functional products

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
- Teaching Assistant (1.5 yrs): Led discussion sections for 200+ students and performed TA duties
- Network Technician (1.5 yrs): Maintained network infrastructure across 300+ campus buildings
- DEI Event Planner (1.5 yrs): Coordinated 10+ campus events for 2000+ engineering students

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

Software Engineer Intern - Beijing OlymBall Tech. Dev. Co.   May 2022 - Aug. 2022
- 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