

# Weifang Huo



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## EXPERIENCE

### • CARIAD (Volkswagen Group China)

Beijing, China

#### • System Integration Intern

Oct. 2025 – Present

- **Backend** Contributed to the backend architecture design and performance optimization of an automotive testing platform, efficiently processing 200GB+ data.
- **AI Integration** Integrated AI models into data workflows to automate data extraction, analysis, and self-correction processes.
- **Database** Developed a knowledge base service using FastAPI and PostgreSQL, ensuring efficient data indexing and retrieval under high-concurrency scenarios.
- **DevOps** Deployed and monitored API services on Linux servers; configured Nginx for reverse proxying and load balancing.

### • National Clinical Research Center for Orthopedics

Beijing, China

#### • Algorithm Intern

Aug. 2025 – Oct. 2025

- Conducted algorithm research on medical imaging; deployed and validated models
- Co-designed and optimized architectures, improving small-bone detection accuracy and reducing errors by 10%

### • Multimodal and Text-based Entity Relation Extraction

Beijing, China

#### • Research Group Member, Prof. Rong-En Yan's Lab

Jan. 2025 – Present

- Research on multimodal large models and entity relation extraction
- Contributed to multiple papers; one first-author paper under review

## LANGUAGES AND SKILLS

### • Programming Languages and Frameworks

Python, Rust, PostgreSQL, Linux, Shell, etc.

### • Skills

- Experienced in AI model deployment, debugging, and maintenance
- Proficient in Linux development environments and system configuration
- Proficient in the Python backend development lifecycle and performing system integration.
- Experienced in using Rust for algorithmic and systems-level programming
- Familiar with virtualization and Docker technologies

### • Language Proficiency

English (fluent), German(read-only)

## EDUCATION

### • School of Engineering

Beijing, China

#### • Major: Electrical Engineering and Automation

Sep. 2024 – Present

- **Relevant Courses** Electrical Machines, Engineering Electromagnetics, Electrical Software Programming, Principles of Automatic Control, Signals and Systems, Fundamentals of Engineering Surveying, etc.

### • School of Information Science and Technology

Beijing, China

#### • Minor: Computer Science and Technology

Sep. 2024 – Present

- **Relevant Courses** C/C++ Programming, Java, Networks and Signals, Frontend, Data Structures, etc.

## AWARDS

- **Grand Prize** “Youth Innovation Beijing”2025 “Challenge Cup”Capital University Student Extracurricular Academic and Technological Works Competition (Jun. 2025)
- **Third Prize** China International College Students’Innovation Competition (Beijing Division, Jul. 2025)
- **Third Prize** “Jingcai Innovation”Beijing College Student Innovation and Entrepreneurship Competition (AI Track, Jul. 2025)
- **First Prize** Beijing Forestry University Student Innovation Competition (Main Track, Jun. 2025)