

Weifang Huo

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EXPERIENCE

- CARIAD (Volkswagen Group China)**
System Integration Intern

Beijing, China
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**
Algorithm Intern

Beijing, China
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**
Research Group Member, Prof. Rong-En Yan's Lab

Beijing, China
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**
Major: Electrical Engineering and Automation

Beijing, China
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**
Minor: Computer Science and Technology

Beijing, China
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)