

# Weifang Huo

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## EXPERIENCE

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- **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

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- **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

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- **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

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- **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)