

Chaoyu Hu

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Profile

Proactive and results-oriented Automation undergraduate with a strong foundation in software engineering, machine learning, and system design. Recognized as an **Outstanding Participant** at the Rust Camp hosted by the RustCC Community and Tsinghua University, demonstrating a rapid mastery of modern, high-performance programming languages. Eager to apply my skills in Rust, AI, and backend development to contribute to Kong's AI Gateway team.

Education

Chang'an University | B.S. in Automation

Sep 2022 - Jun 2026 (Expected)

- A “Project 211” key national university.
- Relevant Coursework: Control Theory, Signal Processing, Machine Learning, Software Engineering, Data Structures & Algorithms.

Technical Skills

Languages

Rust Python JavaScript TypeScript SQL

Backend & DevOps

Node.js RESTful API Docker CI/CD **Microservices** Databases

AI & Data

Machine Learning Data Analysis Reinforcement Learning

Frontend

React Vue.js HTML5/CSS3 Webpack

Development Tools

Git VS Code IntelliJ IDEA

Honors & Awards

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| ★ | Outstanding Participant, Rust Camp - RustCC & Tsinghua University
Gained hands-on experience with Rust, building a foundation for high-performance, memory-safe backend development. | Mar 2025 |
| ● | First Prize (Provincial), National Mathematical Contest in Modeling - CUMCM
Demonstrated strong capabilities in data modeling and algorithmic optimization. | Dec 2023 |
| ● | First Prize (Provincial), National College Students Mathematics Competition - CMS
Provides a solid theoretical basis for algorithm design and data analysis. | Nov 2024 |
| ▲ | CET-4 Certificate - National College English Testing Committee
Proficient in reading and writing English, fully capable of understanding technical documentation. | Jun 2024 |

Project Experience

Enterprise RPA Process Automation Platform

Dec 2024 - Feb 2025 (Internship Project)

Company: Confidential Tech Company | **Team Size:** 8 | **Role:** Frontend Engineer

- Engineered a drag-and-drop workflow designer using Vue.js for an RPA platform, simplifying process configuration for enterprise clients.
- Developed a real-time monitoring dashboard with WebSockets to provide live updates on workflow execution status.
- Implemented robust user authentication and multi-tenant isolation, enhancing platform security and scalability.
- Optimized frontend performance, reducing initial page load time by 60% and significantly improving user experience.

Key Technologies: Vue.js, JavaScript, WebSocket, Element UI, Echarts

Intelligent Data Analysis & Visualization System

Sep 2023 - Jan 2024

Project Type: Full-Stack Data-Driven Web Application

- Built a data analysis platform from scratch using React and Node.js, supporting ingestion from multiple data sources.
- Integrated machine learning algorithms to enable intelligent data analysis and predictive functionalities.
- Developed interactive data visualization components with D3.js, allowing for custom charts and dynamic dashboards.
- Engineered an automated reporting feature with scheduled delivery, improving data accessibility for stakeholders.

Key Technologies: React, Node.js, Python, D3.js, MongoDB, Machine Learning

Reinforcement Learning for Autonomous Path Planning

Sep 2023 - Jun 2024

Project Type: Provincial Undergrad. Innovation Project | **Advisor:** Prof. Changpeng Wang

- Researched and implemented a Deep Q-Network (DQN) based algorithm for intelligent agent path planning.
- Constructed a multi-agent simulation environment to validate the algorithm's convergence and stability.
- The research provides a foundational algorithm for hardware like drones and AGVs, showcasing strong AI and systems-thinking skills.

Key Technologies: Python, Reinforcement Learning, Robotics Control, Algorithm Optimization

"Passionate about building high-performance systems and intelligent applications."