

JIARUN HAN

Software Developer | AI & Multi-Agent Systems

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EXPERIENCE

Research Assistant Intern

University of Helsinki

Jun 2026 - Present | Helsinki, Finland · Hybrid

- Built all modules of VeriEvo, an AI agent framework that generates and improves engineering solutions for scheduling, power-grid control, and ship-hull design.
- Implemented code execution, simulation, and constraint checks to retain only valid improvements, with reusable skills distilled from successful and failed attempts.
- Integrated ShipD hull optimization and physical resistance calculations. With experience reuse, optimized hulls reduced total resistance by 10.27% on average versus initial designs across 50 tasks.

Master Thesis Intern - AI & Multi-Agent Systems

Ericsson

Jan 2026 - Jun 2026 | Stockholm, Sweden

- Designed and built a general-purpose multi-agent framework that turns user requirements and domain knowledge into recommendations with supporting evidence.
- Used Python and Neo4j to retrieve relevant knowledge, and AG2 (AutoGen) to coordinate agents that propose solutions, review one another's work, and refine recommendations.
- Stored proposals, disagreements, revisions, and final recommendations in Neo4j so engineers could inspect how a decision was reached.
- Validated the framework in 5G core-network and bicycle configuration tasks, checking requirements compliance and supporting evidence.

AI Engineer Intern

University of Chinese Academy of Sciences

May 2025 - Aug 2025 | Beijing, China

- Built an AI troubleshooting prototype with a FastAPI backend and Gradio interface, including user registration, session management, and conversation history.
- Developed LangGraph agent workflows to route troubleshooting queries and combine logs, technical documents, and KPIs to investigate faults.
- Implemented a RAG pipeline with query rewriting, embedding retrieval, and document scoring to supply relevant evidence for troubleshooting responses.

AI Evaluator & Senior Reviewer

Scale AI

Oct 2024 - May 2025 | Remote

- Ranked and refined LLM outputs for code generation, reasoning, and instruction following to support RLHF fine-tuning.
- Audited 100+ tasks weekly with >95% quality compliance while mentoring junior annotators.

EDUCATION

M.Sc. ICT Innovation

KTH Royal Institute of Technology
& Aalto University

Sep 2024 - Oct 2026 (expected)

Stockholm, Sweden & Helsinki, Finland

Dual degree. Specialization: Multi-agent AI orchestration and distributed reasoning

B.Eng. Robotics & B.Sc. Computer Science

Changchun University of
Science and Technology

Sep 2018 - Jun 2024 | China

Dual degree. Foundations in systems programming, machine learning, and autonomous systems.

PROFILE

Software Developer focused on AI agents and Python applications. Built agent frameworks that execute tools, check results, and reuse experience, alongside knowledge-graph decision support and AI troubleshooting applications. Experience spans backend development, agent orchestration, and evaluation.

LANGUAGES & DATA

Python TypeScript JavaScript SQL

Cypher C++

Neo4j pgvector

AI & DEVELOPMENT

FastAPI React LangGraph Gradio

PyTorch Hugging Face

RAG Agent Orchestration LLM Evaluation

TOOLS & PLATFORMS

Codex Claude Code Copilot

Git Linux Docker Google Cloud