

YUNZHI LIN

Email: riddimdubstep13@gmail.com

Mobile number: +44 7942958397

GitHub: <https://github.com/Riddim004>

PROFILE

Computer Systems Engineering undergraduate at the University of York, specialising in Artificial Intelligence, with practical experience in large language model data production, data analysis, NLP, time-series analysis and AI application development. Experienced in developing AI and software projects involving LLMs, RAG, agent systems, hybrid retrieval and Android applications, alongside practical exposure to Python, SQL and data-processing tools in professional environments. Particularly interested in AI engineering, intelligent systems, information retrieval and the development of practical AI applications.

EDUCATION

University of York, United Kingdom

09.2023 – Present

Bachelor of Science (Hons) in Computer Systems Engineering with Artificial Intelligence

- **Relevant Modules:** Artificial Intelligence and Automata, Computation, Complexity and Logic, Deep Learning, Capstone Project: Computer Science, AI Search and Logic, Engineering 2: Automated Software Engineering

WORK EXPERIENCE

Beijing Zhipu Huazhang Technology Co., Ltd., China

01.2026 – 04.2026

Data Intern

- Supported the preparation and quality assurance of training data for GLM-series large language models, covering supervised fine-tuning (SFT) and reinforcement learning from human feedback (RLHF) across multi-turn dialogue, instruction following, code generation and logical reasoning; processed approximately 50 high-quality data items daily.
- Developed Python scripts to preprocess annotated data, including exact-match deduplication, format validation and low-quality data filtering, and manually reviewed edge cases flagged during automated checks.
- Conducted quality checks and error analysis on sampled data batches, identifying recurring issues involving hallucinations, logical inconsistencies and safety-sensitive content; developed an error classification system and proposed improvements to annotation guidelines.
- Prepared validated datasets in training-ready formats, performed basic distribution checks across dataset splits, and delivered datasets and accompanying issue reports to the model training team.

Jinshi Technology Trading Co., Ltd.

12.2024 – 03.2025

Intern

- Supported the development of a customer data analysis workflow, using Python to build a sales trend tracking system and clean and organise more than 30,000 historical transaction records for analysis.
- Used Excel PivotTables to identify key customer groups and analyse purchasing patterns, providing data-driven insights to support more targeted marketing activities.
- Supported cross-border e-commerce process optimisation by testing and improving a bilingual order management platform, focusing on data-entry validation, system functionality and troubleshooting logistics API issues under the guidance of senior staff.
- Applied a pre-trained sentiment analysis tool to analyse customer reviews and categorise feedback into themes including product quality and service, supporting the preparation of email marketing content for promotional campaigns.
- Conducted market research into smart home devices and related hardware products, reviewing product functions, technical specifications and market positioning to support the identification of suitable products and suppliers.
- Researched and compared hardware specifications, product configurations and technical features across competing smart-home devices, organising the findings into structured comparison materials for internal evaluation.
- Conducted preliminary research into supplier capabilities and patent status, combining technical product information with commercial and intellectual property considerations to support the team's feasibility assessment.

- Assisted with the organisation and review of hardware-related product information and technical documentation, developing a practical understanding of how product specifications and hardware features can inform supplier selection and market evaluation.

Shangrao Municipal Bureau of Industry and Information Technology

06.2024 – 09.2024

Intern

- Supported the optimisation of an industrial data analysis tool by using Python to develop basic natural-language query functionality for an industrial economic database, enabling non-technical users to retrieve information such as manufacturing output data.
- Contributed to the development of a multi-dimensional business indicator tracking system, using Excel and basic SQL to organise and visualise data on indicators including enterprise digitalisation and equipment utilisation rates, supporting analysis of policy impacts on manufacturing enterprises.
- Assisted in monitoring industrial operating data by developing a time-series monitoring tool using Prophet, helping identify and record cases of potential energy-consumption anomalies for further investigation.
- Used Python scripts to automate parts of the routine data aggregation process, including monthly report preprocessing, helping reduce manual processing errors.

PROJECT EXPERIENCE

FlowAgent-Studio, Low-Code AI Workflow Platform

Core Developer / Further Development

- Contributed to the development and optimisation of FlowAgent-Studio, a low-code AI workflow orchestration platform designed to simplify AI application development through visual, drag-and-drop workflows for multimodal AI tasks, including text generation, data processing and model invocation.
- Designed and implemented a workflow-based Agent system for complex tasks, supporting multi-step task decomposition, tool calling and result aggregation to improve the efficiency and stability of automated task execution.
- GitHub: <https://github.com/Riddim004/FlowAgent-Studio>

DeepResearch-Agent, Intelligent Research Assistant

Lead Developer

- Led the development of an intelligent research assistant based on large language models and Retrieval-Augmented Generation (RAG), supporting automated literature retrieval, information extraction and research report generation.
- Designed and implemented a modular architecture covering literature crawling, text parsing, vector retrieval and intelligent summarisation, using LangChain to support flexible interaction between LLMs and external tools and improve code maintainability and extensibility.
- GitHub: <https://github.com/Riddim004/DeepResearch-Agent>

EchoList, AI-Powered Android Task Management Application

Lead Developer

- Led the development of a native Android AI task-management application using the Zhipu GLM large language model to support natural-language task parsing, time extraction, intelligent work/life categorisation and precise reminder notifications.
- Designed a tool-calling LLM Agent architecture supporting multi-turn contextual understanding and an offline rule-based fallback mechanism, covering conversational task creation, task management and reminder notifications.
- GitHub: <https://github.com/Riddim004/EchoList>

Ragkit, Hybrid Retrieval RAG Engine

Core Developer

- Developed a hybrid retrieval RAG engine combining BM25 lexical retrieval with vector-based semantic retrieval, using Reciprocal Rank Fusion (RRF) for result ranking to improve recall for complex queries.
- Built an automated retrieval evaluation framework using standard information retrieval metrics including Recall@K and Precision@K, supported by a CI pipeline and comprehensive unit testing to enable measurable and regression-based quality assessment.
- GitHub: <https://github.com/Riddim004/uk-student-rag>

Endless Onslaught, 2D Roguelike Survivor Game

Independent Developer

- Developed a 2D roguelike survivor game from scratch using TypeScript and HTML5 Canvas without a game engine, maintaining 60 FPS with hundreds of entities on screen.
- Reworked collision detection from $O(n^2)$ processing to spatial hash-grid queries, using numerical grid keys instead of string concatenation to reduce per-frame garbage collection overhead.
- Implemented nearest-enemy searching using expanding-ring queries with early termination to reduce unnecessary traversal while maintaining correct target selection.
- Developed a complete game system including two character classes, 12 weapons, 10 passive abilities, weapon evolution, destructible environments, an external progression leaderboard and a shop.
- Integrated rendering and hit detection using the same sword-effect geometry, implemented per-entity Y-sorting for environmental occlusion, and packaged the application as a portable Windows executable using Electron.
- GitHub: <https://github.com/Riddim004/Endless-onslaught-Rogue>

PUBLICATIONS AND RESEARCH

Wang, W., Lin, Y., Zhang, Q., Shao, X., & Cai, Z. (2026). *Feedback-Driven Relay-Assisted Parking Edge Computing for Dynamic Resource Organization and Task Offloading*.

- Manuscript submitted to Computer Networks (Elsevier).
- Manuscript ID: COMNET-D-26-07443
- Co-authored research on edge-computing resource orchestration for smart parking, focusing on feedback-driven, relay-assisted task-offloading strategies.

AWARDS AND CERTIFICATION

University English Speech Competition

09.2024

- First Prize

Outstanding Class Committee Member

2023–2024 Academic Year

- Recognised for academic coordination as Class Academic Representative

HAP – York Ambassador Scholarship (High Achiever Programme x University of York)

10.2026

- Awarded for academic excellence and selection to represent the University of York and the High Achiever Programme.

Certificate of Completion – Sustainable Reality: Building Futures in HPC & AI

10.2026

- Completed training in high-performance computing (HPC) fundamentals, system design, cluster resource management, and team-based problem-solving.

TECHNICAL SKILLS

- **Programming:** Java, C++, Python, SQL, TypeScript, HTML5, JavaScript
- **AI and Machine Learning:** Large Language Models, SFT, RLHF, RAG, Agent Systems, Sentiment Analysis, Natural Language Processing, Deep Learning, Prophet
- **Data and Databases:** Pandas, NumPy, MySQL, Oracle, Data Cleaning, Data Analysis, Data Visualisation, Time-Series Analysis
- **Software Development:** Android Development, LangChain, HTML5 Canvas, CI Pipelines, Unit Testing, API Integration
- **Development Tools:** Claude Code, Cursor, Codex, GitHub
- **Automation:** Python-based workflow automation, data aggregation, report preprocessing, batch data processing

LANGUAGES

- **Chinese:** Native
- **English:** IELTS 6.5, CEFR B2+