

Yanbo Han

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Education

Hainan University

Expected May 2025

Bachelor of Science in Software Engineering (The average score: 82.77)

Haikou, Hainan

- **Relevant Coursework:** Data Structures and Algorithms (C++), Introduction to AI, Linear Algebra, Pattern Recognition (Python), Natural Language Processing, Java Programming, High Performance Computing
- **Study Intention:** Pursuing PhD Program or Research Internship

Research Experience

HNU SKyan Group

April 2023 – Now

Junior undergraduate student

Haikou, Hainan

- Proposed the development of a deep neural network model named BiCalBERT for Chinese question-answering within the scientific domain, under the esteemed supervision of Associate Professor Yan. The work was substantially sponsored by the research project (Grant No. 62202128) supported by the National Natural Science Foundation of China. Additionally, this research was substantially sponsored by the grant from Hainan University (Grant No. KYQD(ZR)23125).
- Contributed to repositories containing large language models, aiming to tackle performance issues across various tasks. Through implementing changes and innovations, the goal was to facilitate the resolution of task performance issues and achieve improved results.
- Engaged in experimentation, modification, and fine-tuning of my own models currently, alongside acquiring knowledge in Diffusion Models, RAG, and other prominent AI techniques.

NIIT Turing Organization

March 2023 – Now

HNU Undergraduate AI Team Leader

Haikou, Hainan

- Achieved the national second prize and the provincial second prize in the artificial intelligence innovation track of the CRAIC2023 competition.
- Responsible for core work such as model selection, tuning, training, and evaluation in the development of the software "GPT Smart Text Detection System Based on RoBERTa-RCNN and Attention Pooling", which was reviewed and registered by the China Copyright Protection Center.
- Concentrated on an invention patent concerning the application of artificial intelligence in natural language processing has successfully completed the initial evaluation process.

Practical Experience

Artificial Intelligence Practice | *Deep Learning, Diffusion Model, NLP, RAG*

- Engaged in various open-source initiatives led by prestigious institutions like DataWhale or Intern, each specializing in diverse artificial intelligence domains. Took on roles ranging from active participants to showcasing excellence as teaching assistant.
- Accumulated rich experience in competitions involving artificial intelligence-generated content, LLMs, and knowledge graphs, including Kaggle, Ali Tianchi, and other platforms, achieving top 25% results on multiple occasions throughout the competitions.

Program participant in NPU | *Computer Vision, TensorFlow, PyTorch, OpenCV, YOLOv8*

- Participated in the 2023 Summer AI MASTER training camp at Northwestern Polytechnical University, supported by Huawei. Successfully completed professional coursework and practical project assessments, achieving outstanding A+ results.
- Deepened my understanding and insight into fundamental AI theory, under the guidance of Huawei's outstanding programmers and instructors, and successfully deploy a target detection model on Huawei terminal equipment Atlas200IDK.
- Achieved Huawei Cloud HCCDA-AI talent certification and gained entry into Huawei's talent pool.

Innovative & Practice Programme for the Cultivation of High-level Internationalized Talents | *NLP, Cloud Computing*

- Under the esteemed supervision of the esteemed international mentors in the 2023 summer vacation Project-Based Learning (PBL) interdisciplinary courses, leveraging their expertise to enhance project outcomes and foster global perspectives.

- Independently completed a series of internationally-aligned Project-Based Learning interdisciplinary online courses, showcasing alignment with global standards by passing all associated examinations.

Intern at the Hainan Provincial Department of Education | *Data Processing, Excel, Word*

- Engaged in the Hainan Province Sail Plan and undertook an internship at the Teacher Work Office of the Hainan Provincial Department of Education from May to June 2023.
- Responsibilities included data processing and participating in data verification for crucial documents, such as teacher recruitment for specialized positions.

Self Recommendation

I understand the basic concepts of deep learning, machine learning and natural language processing, and am familiar with related technologies and tools, such as Pytorch, Tensorflow, Huggingface, etc., and can flexibly choose tools for research and development. At the same time, I have certain scientific research experience and plan to engage in scientific research work for a long time.

While, I also have good English proficiency and the experience and ability to independently complete basic practical projects. I have a strong sense of responsibility, self-motivation, sufficient interest in related fields, the ability to coordinate learning, and devote a certain amount of energy to related fields (each More than 30 hours per week)

Technical Skills

Languages: Python, Matlab, SQL, LaTeX, C, Cpp

Technologies: PyTorch, TensorFlow, Langchain, Django, Hadoop Ecosystem

Concepts: Artificial Intelligence, Deep Learning, Machine Learning, Computer Vision, Natural Language Processing, Reinforcement Learning from Human Feedback, Generative AI, Operating System, Neural Networks, Database Normalization, Cloud Computing