

Zou Yuanben

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Singapore

EDUCATION

National University of Singapore Computer Engineering Master <ul style="list-style-type: none">GPA:4.30/5.0	Aug 2023 - Jan 2025
Beijing University of Posts and Telecommunications Telecommunication Engineering with Management Bachelor <ul style="list-style-type: none">Bachelor of Science (Engineering) with Honors, First ClassGPA:3.46/4.0	Sep 2019 - Jun 2023

WORK EXPERIENCE

Ultra-Wireless Pte Ltd IC Algorithm Engineer <ul style="list-style-type: none">Proficient in the IEEE 4a/z UWB standard, extensive experience in one-way and two-way ranging under the UWB standard.Independently developed the ranging verification process for the RM-RTL validation platform of next-generation chips, successfully passing all tests.Skills: UWB, Ranging Algorithm, RM-RTL	Feb 2025 - Mar 2025 Singapore
Agency for Science, Technology and Research (A*STAR) Scientist <ul style="list-style-type: none">Building a multi-domain privacy-preserving retrieval framework based on RAG, Knowledge Graph, and federated learning.Completed experiments on Shapley-based data valuation and assisted in the completion of the paper Domain Bridging: Enabling Adaptation without Peeking at Target Data.Skills: Federated learning, RAG, LLM, Knowledge Graph	Aug 2024 - Jan 2025 Singapore
Duke-NUS Medical School Back-end Software Developer <ul style="list-style-type: none">Responsible for developing the full stack for the School's Integrated Teaching and Learning Platform based on Elentra System.Skills: PHP, MySQL, Full-stack development	Nov 2023 - Jun 2024 Singapore
Sangfor Technologies Inc. Technical Operation Intern <ul style="list-style-type: none">Executed terminal fingerprint collection and developed a new network telemetry platform, enhancing data collection and monitoring capabilities.Skills: Flask, Elasticsearch, Web development	Apr 2023 - Jul 2023 China

PROJECT EXPERIENCE

Optimizing LLMs through Multi-Head Attention and Cognitive Neuroscience <ul style="list-style-type: none">Enhanced multi-head attention with trainable adapters, enabling dynamic dataset adaptation. Discovered consistent adapter distribution patterns and optimized attention allocation, achieving a 15% accuracy improvement in sentiment analysis.Skills: Transformer Model, Adapter, Model Finetuning	Aug 2023 - May 2024
Organization-Exclusive Vertical Search Engine <ul style="list-style-type: none">Led the development of a high-performance vertical search engine, optimizing search efficiency based on Elasticsearch.Skills: Web development, Algorithm Optimization	Jun 2021 - May 2022

Major Skills

- Full-stack development, NLP, LLM, IC Algorithm .