

Name

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Education

Graduate School M.S. Computer Science - GPA: 4.0/4.0	City, State Aug 2023 - May 2026(Expected)
Univeristy B.E. Systems Engineering - Honors Degree (Top 3%)	City, CN Sep 2019 - Jun 2023

Skills

Programming Languages:	Python, Java, SQL, R, C++/C, JavaScript
Frameworks & Libraries:	SprirngBoot, Flask, React, LlamaIndex, Hugging Face, PyTorch, Scikit-learn
Databases & Cloud Services:	MongoDB, Pinecone, AWS (EC2, S3), Spark
DevOps & Data Processing:	Docker, Git, CI/CD, Web Scraping

Internship Experience

BAT Software & Data Engineer Intern	City, CN Jul 2024 - Sep 2024
<ul style="list-style-type: none">Led the design and development of the advertising platform’s backend, enhancing ad targeting through advanced data analysis and modeling.Refactored projects using Java, Spring Boot, and MyBatis, reducing system coupling by 40% and speeding up feature deployment by 25%.Engineered ETL pipelines with SQL and Python, resulting in a 30% boost in data loading performance and streamlined data cleaning processes.Integrated microservices with HSF and Tair, enhancing system stability by 30% and supporting high concurrency with efficient RPC.Automated deployment and service management with Docker and Kubernetes, improving service reliability. Implemented system health monitoring with Prometheus and Grafana, leading to a 15% reduction in downtime.	
Company 1 Software Engineer Intern	Singapore, Hybrid May 2024 - Jul 2024
<ul style="list-style-type: none">Developed a Flask RESTful API backend, integrating MongoDB for chat history and Pinecone for vector embeddings. Optimized the 7B model using TensorRT to enhance performance on resource-constrained systems.Built a responsive React frontend and deployed the application on AWS with Docker and GitHub Actions for CI/CD. Integrated real-time updated knowledge sources and designed a scalable RAG server with LlamaIndex.Improved chatbot accuracy and efficiency using advanced agents and optimization techniques, reducing input prompt size by 50%. Implemented security measures to prevent abuse and ensure responsible API usage.	
Company 2 Data Analyst Intern	City, CN Feb 2023 - Jun 2023
<ul style="list-style-type: none">Conducted Time Series Analysis on 80 million dataset using Python and Spark, tested the novel pricing strategy by A/B testing, and achieved a 18.6% increase in station utilization and 21.5% rise in revenue.Extracted battery swapping order data using SQL, utilized hypothesis test to evaluate the effectiveness of improved battery inventory strategies designed with Engineering team, and achieved a 24.2% boost in process efficiency.	

Projects

Deep Learning for Sleep States Detection	Oct 2023 - Dec 2023
<ul style="list-style-type: none">Led a team to develop a robust Deep Learning model with PyTorch for predicting sleep stages.Crafted several RAM-friendly, efficient data-loading strategies to process 128 million data, reduced memory usage by 60%.Designed powerful model architecture by comparing the Random Forest, XGBoost, BiGRU and Transformer-based models.Increased accuracy by 48%, and discovered the insight of different models handling time-series sequential data.	
xxxDB - Advanced Cpp database implementation	Sep 2023 - Dec 2023
<ul style="list-style-type: none">Developed a concurrent buffer manager with 2Q strategy, including page ID handling and page-locking operations.Combined buffer management with C++ templating, ensuring dynamic adaptability while emphasizing compile-time efficiency and node resolution without direct pointers.Implemented a robust B+-Tree index, incorporating key functions like lookup, insert, and erase, etc.Utilized CMake for building within a Docker Linux environment and performed memory checks using Valgrind.	
Video Streaming System	Nov 2023 - Jan 2024
<ul style="list-style-type: none">Developed back-end functionalities using Java and SpringBoot, while employing Python for the recall and sorting modules.Built video uploading, playback, liking, and favoriting functions utilizing FastDFS as the file server.Leveraged collaborative filtering and deep learning techniques to achieve multi-channel recall, resulting in accuracy of 74%.Designed a hybrid ranking model by leveraging TensorFlow and Keras, resulting in a top-10 accuracy of 77%.	