

# LEI HU

☎ 858.568.5770 ✉ [leh013@ucsd.edu](mailto:leh013@ucsd.edu) 🌐 [sliverbulle.github.io](https://sliverbulle.github.io)

## Education

### University of California, San Diego

*M.S.in Computer Science*

2024 – present

*San Diego, California*

### University of Electronic Science and Technology of China

*B.Eng in Computer Science and Technology | GPA: 3.98/4.00 | Ranking: Top 6%*

2024 – present

*Chengdu, China*

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Machine learning
- Systems Programming
- Software Engineering
- Statistical NLP
- Internet Technology
- Computer Architecture

## Experience

### Hangzhou Yanqu Information Technology Co.(shiyanjia.com)

Jul 2024 – Sep 2024

*AI engineer intern | RAG,python,Cypher*

*Hangzhou, China*

- Build up a multi-index agentic rag system, integrating GraphRAG and VectorRAG for better information extraction.
- Designed a pipeline to enable GraphRAG to support graph storage in a **Neo4j** database and implemented local search function in **Neo4j** using Python and Cypher, **Neo4j**'s query language.
- Contributing to **nano-graphrag**, an open-source repository, which simplifies Microsoft's **GraphRAG** pipeline and provides a method for incremental updates to knowledge graphs with new data. Contributing to **GraphRAG**

### CheckIt Analytics, Start Up

Sep 2024 – present

*Co-founder | Full Stack Developer | WordPress,Python,AWS,RAG*

*San Diego, California*

- AI Analyst for Investment Research,empowering users to make informed, actionable decisions in Investment.
- Assist in utilizing **WordPress** and **Python** to build product website **checkitanalytic.ai** beta version, deployed on **AWS**.
- About to attend San Diego Startup Week October 21st

## Research Experience

### Intelligent Network and System Group, University of Technology of China

Apr.2023-Sep.2023

*RDMA Switching Algorithm based on Scheduling for Big Data(Supervisor: Prof Zhao Yangming)*

*Remote*

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### Business AI Lab,Nanyang Technological University

Jul.2022 – Oct.2022

*COVID-19 Image Classification Method based on Model Fusion(Supervisor:Prof, Teoh Teik Toe)*

*Remote*

- Processed X-ray chest image data by image enhancement to mitigate sample imbalance
- Fine-tuned DenseNet169 and Completed model fusion, enhancing the accuracy of the pre-trained model by 5%

## Technical Skills

**Languages:** Python, C,C++ HTML/CSS, JavaScript, SQL, Cypher

**Technologies/Frameworks:** Linux, Git, GraphRAG, llama-index, Neo4j, LaTeX, WordPress, SpringBoot, MyBatis

## Leadership / Extracurricular

### Outstanding Graduate Award

*ChengDu*

University of Electronic Science and Technology of China

*June 2024*

### Outstanding Student Scholarship

*ChengDu*

University of Electronic Science and Technology of China

*Dec 2023*

### Third Prize in National College Student Information Security Contest

*Hangzhou*

Ministry of Education of China

*Aug 2023*

### Honorable Mention in the 2023 Mathematical Contest in Modeling

*United States*

COMAP

*Jun 2023*