

ZHUOFENG LI

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EDUCATION

Shanghai University, Shanghai, P.R.China

Third year student

Aug, 2021 – Recent

Core Courses

- **Mathematics:** Calculus A (4.0/4.0), Linear Algebra (4.0/4.0)
- **CS:** C++ Program Design and Training (4.0/4.0)

RESEARCH INTEREST

Fields Knowledge Graph, Traffic Forecasting, Recommender System, Microservices Analysis

Methods Deep Learning, Graph Neural Networks, Meta Learning, Data mining

RESEARCH EXPERIENCE

Shanghai University, Shanghai, P.R.China

Department of Computer Science

June, 2023 – Recent

Research Assistant, Advisor: Prof. [Hang Yu](#)

Project: Microservices latency predict

- Introduce a novel graph neural network (GNN) to predict Microservices latency of instance-level based on spatial-temporal dynamic heterogeneous graph.
- To the best of our knowledge, no previous research has considered the spatial-temporal and instance-level aspects of MicroServices.
- Present a new approach to meta-learning that can address MicroServices that have not been encountered before.
- Create a specialized toolkit that can gather information on the CPU usage, memory usage, and latency of Microservices since data in the domain of Microservices is quite rare.

Shanghai University, Shanghai, P.R.China

Department of Communication Engineering

June, 2022 – June, 2023

Research Assistant, Advisors: Prof. Jun Han

Project: Chemical plant leakage identification system

- Develop a Microservices-based system to reduce latency in detecting chemical plant leaks.
- Devise a dedicated leak detection algorithm based on Deep Learning to enhance accuracy.
- Boosted the performance significantly for system while reducing the model size and inference time by more than 5×.
- Get [three patents](#) and [two recommendation letters](#) from professors.

PROGRAMMING SKILLS

Proficient	Python, PyTorch, PyTorch Geometric , Java, Markdown, LaTeX, Git.
Familiar	Linux, C/C++, GO, HTML, JavaScript, etc.