ZHOU, EJ

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EDUCATION BACKGROUND

College of Computer Science and Technology **Hangzhou, China**
& CKC Honors College, Zhejiang University *Sept 2020 - Jun 2024(Expected)*
Bachelor of Science in Computer Science

- Overall GPA: **3.99**/4.0; 91.19/100 Major GPA: **4.0**/4.0
- GRE: 330 + AW4.0

WestLake NLP Lab, Westlake University **Hangzhou, China**
Research Intership & Visiting Student *Sept 2022 - Jan 2023*

College of Engineering, Cornell University **Ithaca, NY**
Exchange Student *Jan 2023 - May 2023*
Courses include: *Computational Linguistics, Language and Information, Historical Linguistics*

PUBLICATION

[1] Yulong Chen, Huajian Zhang, **Yijie Zhou**, Xuefeng Bai, Yueguan Wang, Ming Zhong, Jianhao Yan, Yafu Li, Judy Li, Michael Zhu and Yue Zhang: ***Revisiting Cross-Lingual Summarization: A Corpus-based Study and A New Benchmark with Improvement Annotation***, submitted to ACL 2023

EXPERIENCE

Hangzhou City Brain Sept 2022 - Aug 2022
Internship *Hangzhou, China*

- Assisted in the maintenance of the Integrated Resources System working on database systems.

Westlake University Sept 2022 - Feb 2023
Project: Building ConvSumX, an XLS corpus *Hangzhou, China*
Research Intern in WestLake NLP Lab *Advisor: Yue Zhang*

- Spearheaded the Corpus-Annotation and Corpus-Evaluation team in the creation of the corpus.
- Conducted experiments by fine-tuning mBART model using various corpora on NVIDIA A100 GPUs.
- Delivered comprehensive analysis of both existing XLS corpora and experimental outcomes
- Paper Writing

Cornell University Feb 2023 - Apr 2023
Project: Persuasive Chatbot *Ithaca, NY*

- Developed an automated chatbot capable of detecting factual inaccuracies during conversations, and providing accurate information supported by evidence.

Yale University Apr 2023 - Oct 2023 (expected)
Project: Open-domain multi-document summarization *New Haven, CT*
Research Assistant *Advisor: Arman Cohan*

- Ongoing research

Expected: The 61st Annual Meeting of the Association for Computational Linguistics Jul 2023
Presenter *Toronto, Canada*

- Showcasing research and networking with academic peers

ACADEMIC CONTEST

The 9th INTEL CUP Parallel Application Challenge Aug 2021

Team Leader

Optimized the Weighted Back-Projection(WBP) algorithm by using techniques such as multi-thread paralleling, compiler optimization, and cache alignment. Achieved 3,431% acceleration

SELECTED COURSE-WORKS

Parallel Computing and Neural Networks Jul 2021 - Aug 2021

Coursework for *Integrate Practice for Courses I: Supercomputing; score 97/100*

- Enhanced GEMM performance by over 100x using OpenMP and MPI on a computing cluster.
- Developed a CNN from scratch using PyTorch for handwriting recognition and object recognition.

Mini-SQL GitHub May 2022 - Jun 2022

Coursework for *Database System; score 98/100*

Developed a compact single-user SQL engine (DBMS) supporting fundamental database operations and implemented an index-manager for record handling using a custom-designed B+-tree data structure.

Socket and Web-server Oct 2022 - Dec 2022

Coursework for *Computer Network; score 96/100*

- Developed a custom TCP-based communication protocol.
- Constructed a lightweight web server capable of parsing HTTP protocol and accepting browser access without relying on any pre-built libraries.

EXTRA-CURRICULAR ACTIVITIES

- My film reviews (link), An experimental short-film that I was in *In Some Nights*. Tarkovsky and Wim Wenders
- guqin and guitar

AWARDS AND HONORS

- First-class Scholarship, Zhejiang University 2022/2021
- Excellence Honors Scholarship, Zhejiang University 2021
- Hengyi Scholarship 2021

SKILLS

- Programming Skills: Python, C, C++, Verilog, etc.
- Deep Learning Framework: Pytorch, Transformers, working with LLMs
- Developer Tools: Git, GitHub, Linux, Anaconda, LaTex, Docker
- Others: SQL Language, Linux Kernel Programming, CUDA

LANGUAGES

- Mandarin: Native mastery
- Wu-Chinese: Native in oral speech
- English: Proficient, TOEFL 110/120
- French: Fluent, TFU 84/100
- Japanese: Intermediate reading-comprehension, basic conversation
- Beginner level in Cantonese and Spanish