Yueyuan Huang

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Education

09/2021 – 06/2026 **B.Eng., Fudan University** in Software Engineering.
Used to major in Electronics; Core courses: *C++* A, *Operating Systems* A, *Computer Vision* A, *Compilers* A-, *Software Engineering* A, etc.

08/2023 – 01/2024 **Semester Exchange, Uppsala University (Sweden)**.
Courses: *Algorithms and Data Structures I/II* A, *Database* A, *Computer Architecture* A.

Self Learning.
A line of courses including the *CS61*'s, *CS126 (Probability in EECS)*, *CSW186 (DB)*, *6.S081 (OS)*, *CS3110 (OCaml)*, etc.

Research

01/2025- **RA in Agentic Reasoning,** Supervised by Huaxiu Yao (UNC).
TODO

Experiences

03/2024 – 06/2024 **Software Development Internship,** Fudan Development Institute.
Developed an automated pipeline to collect articles published on think tank websites using web scraping via the requests and Beautiful Soap packages in python. Stored the contents (texts, embedded pdfs and snapshots) in a local database with SQL (SQL Server) through pyodbc. Performed time series analysis on the captured data as well as generated word clouds showing the keywords distributions.

06/2023 – 08/2023 **Data Development Internship,** Ant Group (Alipay).
Built a pipeline to produce structured tables needed by our business out of massive raw data logs on MaxCompute, the big-data platform of Alibaba Cloud. Processed and analyzed the data of how Alipay users utilize certain coupons in services through SQL querying. Trained machine learning model to classify users into different groups (new, active, silent, churned). Employ transformer to learn the temporal pattern of the coupon offering and activeness of users inside each group. Explore effective promoting strategy aiming to improve user activeness based on the user classification and other finer features.

01/2022 – 02/2022 **Software Development Internship,** Hailong Corporation.
Worked on an attendance tracking system. Studied front-end and back-end separation, Java Servlet and the Spring Framework.

Projects

11/2024 – 12/2024 **Document Tampering Detection,** Final Project of Computer Vision Course.
Developed a method to detect forgery in document images for the Tianchi Contest `https://tianchi.aliyun.com/competition/entrance/532223`, which incorporates three complementary heads: (1) an RGB head for visual features, (2) a frequency head leveraging Discrete Cosine Transform (DCT) to ex- tract Block Artifact Grids (BAG) inconsistencies, and (3) a noise head to capture residual out-of-distribution artifacts. These features are fused and processed through a transformer block for robust detection and precise localization. Extensive experiments were performed on our method and the final F1 score 94.27 was among the top 3 of the leaderboard.

10/2024 – 11/2024 **Extended XV6 Kernel**.
Developed a few features and optimizations based on the open-source xv6 os kernel inside a Docker container, including a line of user programs and system calls, priority scheduling, process-owned kernel page table, user authentication & authorization, and environment variables, among others. The project got a third prize in the CSCC OS contest `https://os.educg.net/#/index?TYPE=OS_HDN`.

05/2023 – 07/2023 **Rookie DB,** Project of CS186@Berkeley.
Developed support for B+ tree indices, efficient join algorithms, query optimization, multi-granularity locking to support concurrent execution of transactions, and database recovery on a bare-bones database implementation.

Skills

Languages Mandarin Chinese, English (TOEFL 106)

Coding C/C++ (Competitive Programming), Python (PyTorch), Java, SQL, Julia, OCaml, etc.

Tools SSH, Docker, K8s, Istio, shell, Jupyter Notebook, Latex, Markdown, etc.

Miscellaneous

- University Scholarship
- CCPC Bronze Medal
- GRE 157+170+3.5