Zimo Zeng / 曾子墨

Document Intelligence • Applied AI • Software Engineering

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Profile

Computer Science undergraduate at HUST. Built document-analysis tools, an investment-research workspace, and a local ledger; also worked on evaluation and error analysis for handwritten documents.

Education

Huazhong University of Science and Technology 2025 — Present

B.Eng. studies • Computer Science & Technology

Selected relevant coursework: C Programming 90/100; C Programming Lab 94/100; Data Structures Lab 88/100; Introduction to Information Technology (IT China) 89/100; Freshman Practice 85/100; Calculus B (II) 85/100

Research practice

Handwritten Table & Formula Error Analysis

Reviewed 37 table and 25 formula crops in a MonkeyOCRv2 × OmniDocBench Note study, comparing images, GT, and predictions and producing a categorized visual report with evaluation/training separation.

Selected projects

DocSift Live application

`JavaScript · PDF.js · OpenAI-compatible API`

Built browser-side multi-format parsing, rule/LLM analysis paths, and source-linked findings using a lightweight static JavaScript architecture.

github.com/lifelonglearnerAdam/docsift

AI Product Decision Engine Competition prototype

`Python · Multi-agent · Conformal Prediction`

Three-person competition project connecting trend evidence, multi-agent concepts, calibrated validation, and human review, with leakage-aware backtests, tests, and CI; validated on synthetic data.

github.com/lifelonglearnerAdam/miniso-ai-decision-engine

QuantPilot AI In development • Login required

`TypeScript · NestJS · PostgreSQL`

Developed a TypeScript/NestJS/PostgreSQL research workspace with access control, optimistic locking, incremental sync, and a risk-aware sandbox.

github.com/lifelonglearnerAdam/quantpilot-ai

Zimo Ledger v2.2 • Local-first

`Flutter · Riverpod · SQLite`

Built a local-first Flutter/Riverpod/SQLite ledger with statement import, analytics, budgets, and merge-based recovery; represented monetary values as integer minor units.

github.com/lifelonglearnerAdam/zimo-jizhang

Technical foundations

Languages & algorithms

C / C++ • Python • JavaScript / TypeScript

Product & engineering

Flutter • SQLite • NestJS • PostgreSQL

AI & experimentation

Document Parsing • Error Analysis • Model APIs

Development workflow

Git • Linux • Testing • CI

Course project: a C99 SAT solver (DPLL/CDCL) with Sudoku constraint encoding.

Project details and code are linked from zengzimo.cn.