# Edgar Cui

*On-prem AI & finance systems*

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## PROFILE

I help companies run AI on their own servers — and the finance systems underneath. Large language models deployed on your own hardware, so data never leaves the building — and the close, controls and reporting pipelines that keep the books auditable. On-prem, read-only by default, every step logged.

## EXPERIENCE
SINCE 2019

**Finance systems & in-house AI** — building-materials retail — LATE 2021 — PRESENT

Owns month-end close and controls across a multi-site group, and builds the automation underneath: SAP Business One integration, SQL models, self-hosted dashboards, and on-prem LLM tools — document OCR and natural-language reporting — that run entirely on company hardware.

**Cost Accountant** — manufacturing — 2019 – 2021

Costing, variance analysis, and the first scripts that turned manual exports into standing reports. Where the auditable-by-default habit started.

**Computer science → Accounting** — BEFORE

Started in CS, finished an accounting degree. The combination is the whole point: finance judgement with the engineering — now including applied AI — to back it.

## SELECTED WORK
EXHIBITS A–D

**A On-prem document AI** — LOCAL AI

A vision-language model running on local hardware reads scanned invoices, extracts the header fields and line items, and checks the arithmetic. → Accounts-payable data captured offline; nothing sent to a cloud API.

**B Ask your data in plain language** — LOCAL AI

A self-hosted language model turns plain-English questions into read-only SQL over the ERP. → Answers in seconds, on a model that never leaves the building.

**C Nightly SAP → reporting** — FINANCE PIPELINE

Pulls from SAP Business One on a schedule, rebuilds the models, and refreshes every branch dashboard before the workday starts. → Numbers are ready by morning — no manual exports, no stale tabs.

**D Approval-to-posting with payment safeguards** — APPROVAL → ERP

Approved payments post straight into the ERP with Decimal-exact amounts and a mandatory human gate before any money moves. → Zero re-keying between approval and SAP; nothing posts twice.

Repos are private — walkthroughs on request.

## CAPABILITIES
WHAT I BUILD

01 **On-prem & local AI —** local LLMs on your hardware (open-weight, via Ollama) · document AI & invoice OCR · natural-language-to-SQL · retrieval over your own documents (RAG) · local semantic search · model orchestration with guardrails

02 **Finance systems & ERP —** SAP Business One integration (Service Layer and HANA, read-only by default) · month-end close as a pipeline · approval-to-ERP posting · payment advice · multi-site reconciliation, GST & audit trail · self-hosted BI (Metabase / DataEase)

03 **Local quant & market-data infrastructure —** market-data pipelines · backtesting engine · screeners · position sizing & risk tooling · local analysis dashboards. Engineering, not stock-picking — no advice, no black box.

·· **Stack —** Python · pandas · openpyxl · SQL modelling · scheduled pipelines · approval workflows

## PRINCIPLES
CONTROLS

01
**Your data stays on your hardware**
AI runs on-prem or air-gapped.

02
**Read-only by default**
Source systems are read unless there is a deliberate, gated reason to write.

03
**Decimal, never float**
Money is computed with exact decimal arithmetic.

04
**Humans approve money**
Automation prepares and checks; a person signs off before any payment moves.

## OPEN TO
AVAILABLE

BUILD
**On-prem AI, scoped and shipped**
A private document-AI, a natural-language reporting layer, or an in-house LLM assistant.

ROLE
**Finance systems / FP&A automation**
Close, controls, ERP integration, reporting — in-house or fractional.

FIT
**Teams with data that can't leave**
Finance, manufacturing & retail groups on SAP Business One feel like home.

A short fixed-scope pilot, a larger build, or an ongoing / fractional arrangement — each a fixed fee against a written scope. Happy to sign your NDA.