CASE STUDY

Arecon.ai

AI-Powered Tender Analysis Platform

Turning hundreds of pages of tender documents into clear, verified bid decisions

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01 Project Overview

Construction contractors must read hundreds of pages of tender documents — notices, contract conditions, cost sheets and drawings — before deciding whether to bid. **Arecon.ai** is a secure subscription platform that uses AI to read these documents and produce clear, decision-ready reports, with every fact linked to the exact page it came from.

02 The Challenge

Business challenges

- Manual review was slow and tiring.
- One missed clause could cost a contract.
- Tender data is confidential and must stay private.

Technical challenges

- AI must never invent numbers or dates.
- Support 1,000 users with up to 25 files each.
- Uploads may carry viruses or hidden instructions.

03 Our Approach

We started with how bid teams work and what could go wrong, then set clear design rules:

- **Evidence first** — every AI answer must cite its document, page and exact quote; if it cannot be proven, it is marked “not found”.
- **AI reads, software calculates** — totals, dates and scores are computed by code, never by the AI.
- **People stay in control** — a reviewer approves findings beside the original page.
- **Security in layers** — several independent safeguards protect each customer’s data.

04 The Solution

A layered platform on Microsoft Azure that moves every tender through six clear steps, delivering four outputs: a bid / no-bid snapshot, a full cited tender report, risk scorecards and a submission pack.



Figure 1 · How a tender moves through Arecon.ai

05 Results and Impact

Area	Before	With Arecon.ai
Speed	Hundreds of pages read by hand	Snapshot within 5 minutes; full report within 30 minutes
Accuracy	Important details easy to miss	Every fact linked to its page; anything unproven is flagged
Scale	Limited by the size of the bid team	1,000 users at once, with 99.9% availability
Security	Prototype-level login and storage	Encrypted, private data, kept separate for each customer

Figures reflect the targets the platform was designed to meet.

06 Technology Stack

Area	Technologies
Application	React, TypeScript, Python, FastAPI
Artificial intelligence	Azure OpenAI, Azure AI Document Intelligence, Azure AI Content Safety
Data and cloud	PostgreSQL with pgvector, Azure Blob Storage, Azure Container Apps, Azure Service Bus
Security	Azure Front Door with WAF, Microsoft Entra ID, Azure Key Vault

> **Key takeaway:** With the right design, AI can deliver both speed and trust in high-stakes decisions.