

# ERIC HUANG

## AI Full-Stack / AI Agent Engineer | C# / .NET | Backend Integration | RAG / OpenAI



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Senior software engineer with 20+ years of hands-on experience in C#/.NET backend development, REST APIs, SQL-backed business systems, integration work, web application delivery, and live-system support. Recently focused on applied AI: building RAG and agent workflows with OpenAI, retrieval, OCR, embeddings, prompt/tool workflows, structured outputs, and AI-assisted development. Experience also includes Cloudflare and Edge delivery contexts, plus Linux/SSH service operation on an Advantech MIC-733AO evaluation device. This is a backend-first full-stack integration profile; React/Next.js, WebGL/Canvas, Kubernetes, MLOps, and model training are not presented as established skills.

### ROLE FIT AND HONEST SCOPE

- Strong match: C#/.NET, REST APIs, SQL, backend systems, integration, production support, and practical delivery from requirement to usable service.
- AI application match: OpenAI API, RAG, OCR, embeddings, citations, agent/tool workflows, structured outputs, and repository-aware AI-assisted engineering.
- Full-stack integration: web application and API delivery across data, service, and integration layers; frontend framework and canvas-specific work remain growth areas rather than claimed specialties.
- Cloud and Edge context: Azure, AWS, Cloudflare, Docker, Linux/SSH operation, logs, storage, resource checks, and service health verification.
- Scope boundary: no established React/Next.js, WebGL/Canvas, Kubernetes, MLOps, or model-training ownership is claimed; these can be discussed as learning areas where relevant.

### TECHNICAL PROFILE

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|--------------------|------------------------------------------------------------------------------------------------------------------|
| AI application     | OpenAI API, RAG, OCR, embeddings, prompt/tool workflows, AI agents, structured outputs, AI-assisted development  |
| Backend            | C# / .NET, REST APIs, SQL Server, MySQL, SQLite, data-driven business systems, live-system troubleshooting       |
| Cloud / Edge / ops | Cloudflare, Azure, AWS, Docker, IIS, Linux, SSH, MIC-733AO service operation, logs, storage, and resource checks |
| Integrations       | Microsoft Teams Bot, OpenAB Gateway, Confluence/Jira knowledge integration, department knowledge bases           |
| Delivery           | Git, Azure DevOps, CI/CD, API analysis, task decomposition, review checkpoints, and traceable evidence           |

### RECENT EXPERIENCE

#### Senior Backend / AI Engineer Dec 2025 - Present

President Technology Corp.

- Built and validated short-cycle POCs for internal AI services, then moved selected results into usable, continuously running workflows for document retrieval, knowledge support, code review, and API documentation.
- Built repository-aware code-review and API-documentation agents using OpenAI-oriented prompt/tool workflows, structured outputs, traceable findings, and human verification.
- Applied AI-assisted development to legacy PL/SQL and Pro\*C API analysis and .NET migration planning with task decomposition, review gates, tests, progress visibility, and traceable evidence.
- Built and validated a short-cycle Microsoft Teams Bot foundation with OpenAB Gateway integration design; tenant integration remained permission-dependent.
- Contributed to an integrated AI workplace assistant combining UI/Ollama, RAG, enterprise knowledge integration, OpenAB, and Teams Bot components; extended notification audit, Jira handoff deduplication, and issue classification.
- Operated multiple internal AI and backend services on an Advantech MIC-733AO evaluation device in a Linux/SSH workflow with routine log, storage, and resource checks.

#### Senior Programmer Feb 2025 - Nov 2025

Taiwan External Trade Development Council

- Delivered short-cycle POCs for an internal AI portal, media search, company search, business-card OCR, HubSpot import, and content tools, then moved validated features toward operational use.
- Migrated Adobe AEM content to Azure Static Web and supported an internally maintainable cloud architecture.

#### Senior Backend Manager Oct 2021 - Oct 2024

MoneySQ Development Ltd., Taiwan

- Developed and maintained lending-system backend functions, database components, and SSRS reports for a live business system.
- Maintained IIS, Azure DevOps CI/CD, backup, and reporting workflows while supporting live-system issues and business requirements.

## SELECTED AI AND FULL-STACK DELIVERY

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### Local AI and RAG Workflows

Built and validated a short-cycle internal POC for OCR, embeddings, hybrid retrieval, citations, and separated knowledge boundaries, then moved the validated capability into a continuously usable retrieval and knowledge service.

### Code Review and API Documentation Agents

Built repository-aware agent workflows using prompt/tool steps and structured outputs, then moved the workflow into actual development use with human review checkpoints.

### AI Workplace Assistant, Teams, and OpenAB

Contributed to an integrated workplace assistant combining RAG, enterprise knowledge integration, OpenAB, Teams Bot, and UI/Ollama components; tenant-level integration boundaries remained explicit.

### MIC-733AO Linux and SSH Service Operation

Operated multiple internal AI and backend services on an Advantech MIC-733AO evaluation device through Linux/SSH routines, including log review, storage checks, resource checks, and service-health follow-up.

### Cloudflare Services and Delivery Safeguards

Built short-cycle commerce, public-data, education, and transit POCs, then strengthened delivery workflows with scope-limited credentials, token-presence checks, source synchronization, staging exclusions, service health verification, and rollback checks.

### AI-Assisted PL/SQL and Pro\*C to .NET Migration Workflow

Supported a controlled workflow for legacy API analysis, task decomposition, implementation planning, tests, review checkpoints, and traceable delivery evidence.

## EARLIER EXPERIENCE

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### Backend Developer Oct 2020 - Oct 2021

Mu Rong Technology Co., Ltd.

- Developed and deployed backend services for a smart coffee-roaster application in AWS and Docker environments.

### Analyst Programmer Jan 2019 - Oct 2020

MoneySQ Development Ltd., Taiwan

- Developed and deployed backend APIs for the SmartMe property website and app on Azure Web App.

### Programmer Aug 2013 - Dec 2018

Taiwan Multimedia Co., Ltd.

- Developed and maintained media asset, news digitization, and contract-management systems through iterative delivery and live-system support.

### Software Engineer Jul 2008 - Aug 2013

Cyun Huei Health Technology

- Developed and maintained RFID surgical-instrument tracking, infection-control, and dialysis systems.

### Programmer Feb 2006 - Mar 2007

Pierre Software

- Maintained construction ERP software and customer-facing websites.

## EDUCATION AND LANGUAGES

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Minghsin University of Science and Technology - B.S. Electrical Engineering, 2000 - 2004

Mandarin: Native | English: Intermediate | TOEIC: 745

## WORKING APPROACH

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Inspect the existing system, build a focused POC quickly, validate the output with working evidence, move useful results into operation, and keep human engineering judgment explicit.