

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

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

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

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

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

Mandarin: Native | English: Intermediate | TOEIC: 745

WORKING APPROACH

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.