Ken Huang 黃鵬展

AI Application Engineer · Agent Platforms · Systems Integration

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SUMMARY

Moving AI from "can answer" to "reliably gets the job done."

14 years in software, including 11 years owning Murex FX-trading and STP systems at Taishin Bank. Lately I focus on AI agents, MCP tooling, and model training and evaluation; PickPico, built with teammates, took third place at FUTUREMODE × SITCON Hackathon 2026.

EXPERIENCE

Taishin International Bank · Senior Software Engineer | FX Trading · Murex · STP 2015/05 – 2026/08

- Configured and maintained Murex MLC (market limit control), Exchange Workflow, and Pre-trade Rules across front, middle, and back office.
- Built data-transformation and field-mapping logic in Murex Formula (XSL/XSLT); maintained the Confirmation module.
- Designed and ran a standalone C#/VB.NET STP server, monitoring interface logs, trade flows, and performance to cut latency, data mismatches, and dropped deals.
- Onboarded STP for seven counterparties: EBS, Reuters, UBS, S&P Global, Deutsche Bank, JP, and SPARK.
- 2024–2026 bank merger: wrote the Murex-to-NX data-conversion and interface formulas.
- Packaged repetitive test documents and procedures into AI-agent skills for colleagues, cutting repetitive form work by about 80%.

Kewei Information · Software Engineer / FAE Team Lead 2012/09 – 2015/04

- Built and maintained backend features for a travel-information website; debugged application logic, databases, and systems.
- Led a three-person FAE team: task allocation, technical support, and coordination.

HOW I WORK WITH AI

Define scope and acceptance first: For my RL agent, acceptance meant win rate over blocks of live fights—never one lucky fight.

Let agents carry the implementation: On PicoBridge, agents wrote much of the cross-stack code across a Windows driver, C# desktop app, and Android, while I focused on Bluetooth standby and clipboard behavior.

Verify on real devices and data: PicoCar reported success setting the default launcher, yet the physical HOME button still opened the factory UI. I tracked down the vendor setting, fixed it, and tested the actual button.

SKILLS

AI & Agents: AI Agent · LLM · MCP / Tool Calling · Human-in-the-loop · LLM-as-judge · Playwright

Machine Learning: PyTorch · Reinforcement Learning (PPO) · Behavior Cloning / DAgger · LoRA fine-tuning · Calibration · Stable-Baselines3 · Demucs

Languages: Python · C# · VB.NET · TypeScript · JavaScript · Rust · Java (Android) · PowerShell · SQL · XSL / XSLT

Fintech: Murex · MLC · STP · Post-Trade Processing · Counterparty integration

Platforms & Tools: Android · Cloudflare Workers / Durable Objects · Tauri · WebRTC · Docker · SQLite · DuckDB · Windows IDD · PWA · Git

AI Dev Tools: Claude Code · OpenAI Codex · Google Gemini · ChatGPT

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SELECTED PROJECTS

PickPico

SITCON 2026 · 3rd Place · Team Project

Gives an AI agent eyes, app control, an on-device runtime, and a direct way to ask someone nearby for help through an Android phone. Started as a hackathon winner and grew into a daily tool with remote authorization, a mobile runtime, and connection recovery.

CLI Monitor v2

Daily Use · Private

The AI-coding control plane I use every day: Codex, Claude, OpenCode, PI, AGY and other AI CLIs wired into Web, Discord, and Telegram so I can watch, prompt, and recover them away from my desk.

PicoCare · Local Judgment & Care Workflow

LoRA Fine-tuning · Prototype

Built around “an elder missed a check-in—what should staff do next?”, connecting minimal phone summaries, a care workbench, and local classification experiments comparing custom LoRA tuning with pretrained small models. Insufficient evidence routes cases back to a person.

`79.7% general NLI accuracy · 1,800 held-out general NLI items · 60 ms v1 median batch latency, RTX 4060`

MCP Relay & Camera Tools

MCP Infrastructure · Daily Use

One Cloudflare Worker plus a Windows bridge that safely exposes several local MCP servers to remote AI; its camera MCP lets an agent see, pan and tilt, listen, and speak.

PicoCar

Real Head-unit Install · In Development

A custom launcher and AI assistant for my Android head unit, unifying navigation, media, shortcuts, and app windows with shared operations for the local assistant and external MCP. Installed on an Android 13 car head unit, with physical HOME verified to return to PicoCar.

RL Boss-Fight Agent

Reinforcement Learning · Live-tested

An agent fights the Orphan of Kos in Bloodborne at native speed, pairing a PPO policy with fast reflexes and human rules—35 wins in 44 live fights on the retained build. Later experiments separate observations, rules, and learning to push more decisions into the policy.

`80% live win rate (44 fights) · 13 longest win streak · 5,539 state dimensions · 4.6 / 60 Hz policy / reflex rate`

EDUCATION

National Taipei College of Business
Information Management, two-year technical program · 2009 – 2011

Taipei College of Business
Information Management, five-year junior college · 2003 – 2008

CERTIFICATIONS

Microsoft Certified Professional (MCP)

FUTUREMODE × SITCON Hackathon 2026, Third Place (PickPico)

LANGUAGES

Mandarin: native
Taiwanese: conversational
English: technical reading
Japanese: basic