

CHENGGONG (EDWIN) LIU

AI Solutions Engineer

AI integration, application workflows and technical delivery | Available Dec 2026

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Graduate candidate combining bilingual stakeholder analysis with AI application development. Builds ingestion, retrieval and review workflows using Python and TypeScript, with authentication, retry recovery and measurable validation.

SELECTED APPLICATION PROJECTS

Multilingual Community Intelligence Assistant

2026

React / TypeScript / Cloudflare development runtime

- Built a React/TypeScript application with tenant-scoped ingestion, evidence-backed retrieval and human review on local Cloudflare D1/R2 emulation.
- Added same-key upload recovery, fenced job processing and signed Access JWT verification, with local D1 concurrency and HTTP checks; remote AI/resource acceptance remains pending.

PoseLoop

2026

Python / PyTorch / RGB-D perception | [Project](#)

- Integrated Mask R-CNN and FoundationPose for RGB-D/CAD evaluation, completing **820 registrations on 25 development frames**; detector F1 **0.726** and joint F1 **0.606** use a custom protocol.

RELEVANT EXPERIENCE

Paradox Interactive

Oct 2025-Present

Community Data Analyst, China Market | Freelance, remote

- Build Python/API and LLM workflows for feedback classification, topic analysis and source-backed stakeholder reports, with retries, structured outputs and human approval.
- Support Greater China player insights and localization decisions through regional community analysis and bilingual stakeholder communication.

IMMRSIV

Jun 2026-Present

Engineer Intern, Simulation Software and Digital Twin | Singapore

- Develop asynchronous loading, shared cache/upload budgets and multi-camera sensor paths, with GPU culling, indirect rendering and repeatable validation.

TECHNICAL SKILLS

Applications: TypeScript, React, APIs, Cloudflare Workers, D1/R2 emulation, SQL, signed JWT validation

AI and delivery: Python, PyTorch, LLM workflows, source-grounded retrieval, fault injection, bilingual communication

EDUCATION

National University of Singapore

Expected Dec 2026

M.Sc. Biomedical Engineering

Shanghai Jiao Tong University

Sep 2020-Jun 2024

B.Sc. Bioinformatics; Minor in Applied Psychology

Languages: Mandarin (native); English (professional; IELTS 7.5)