

Jay Liu (Jie Liu)

Software Engineering | Enterprise AI & FinTech

Auckland, New Zealand · maxazure@gmail.com

jayliu.co.nz · linkedin.com/in/jayliuinvers · github.com/maxazure

Software engineer with more than 20 years of experience across enterprise systems, financial platforms and full-stack delivery. My current work combines financial-platform delivery at FNZ with independent projects in AI integration, agent tooling and reviewable business workflows. I build around reliable updates, traceable records and clear human review points.

Core technologies: C# / .NET, Python, TypeScript / React, REST APIs, SQL Server, PostgreSQL, MySQL, Git, Docker and Linux.

PROFESSIONAL EXPERIENCE

Analyst Developer

Oct 2022 - Present

FNZ Services (New Zealand) Limited

- Analyse and resolve complex problems in financial-platform software, tracing causes and developing fixes within the existing system.
- Assess change impact and regression risk, working with analysts, developers and testers to maintain high reliability and support releases.

Client assignments and implementation details are confidential.

Part-time IT Tutor

Feb - Jul 2022

Southern Institute of Technology

Taught IT709 Web Application Development (.NET 6) and IT501 Hardware.

Part-time Full Stack Developer

2020 - 2022

Guangzhou Yun Xiang Store Co., Ltd.

Developed and maintained invoicing and sales software for clothing retailers using .NET Core, REST APIs, MySQL, Vue.js and Bootstrap.

Full Stack Developer

2018 - 2021

Best IT Solution Ltd. / Hangzhou Xianbing Technology

Built web systems including an SMS reminder platform with Flask, REST APIs, MySQL, React, Redux and Ant Design.

Software Development Team Leader

2011 - 2017

Beijing Ruiyousi Information Technology Co., Ltd.

Led consulting and delivery for enterprise systems, middleware, server deployments and database architecture.

Information Technology Director

2008 - 2011

Beijing Dejian Hospital Management Co., Ltd.

Led development of a hospital management information system and managed delivery of 16 company websites.

Software Development Manager / .NET Software Engineer

2004 - 2008

Seebblue Co., Ltd. / Dingsheng Tech

Managed development of a pet portal; earlier work included .NET communication systems, middleware and company websites.

SELECTED INDEPENDENT PROJECTS

The following work is separate from my FNZ employment.

CRM & AI Workflow Integration | Internal operational system

Problem: Customer-service workflows need to fit the business: what needs follow-up, which records inform a decision, and who approves the next action.

Contribution: Designed and built a customisable CRM, Python / FastAPI API and CLI around PostgreSQL, connecting customer context, projects, invoices and versioned notes.

Delivered: Shared business records, follow-up reminders and controlled agent writes. The integration approach connects contextual analysis to proposed actions, human approval, execution and recorded results. Broader AI decision workflows are tailored extensions. Retry and version checks protect accepted records.

Evidence: jayliu.co.nz/projects/#crm-demo

Public walkthrough uses fictional data and a browser simulation. Production data and endpoints remain private.

NZ Accounting Assistant | Open-source workflow

Problem: Receipts and bank statements arrive in different formats, making it difficult to assemble a ledger without losing the source evidence.

Contribution: Built a reusable AI-agent skill and Python tooling for evidence capture, structured records, reconciliation and export.

Delivered: A documented workflow for Xero CSV exports and accountant review packs. Original evidence is retained, ambiguous matches stay visible, and final records and financial decisions require human review.

Source: github.com/maxazure/new-zealand-accounting-assistant

CodexView | Open-source developer tools

Problem: Coding agents emit different transcript formats, which makes tool calls and nested sessions harder to inspect consistently.

Contribution: Developed transcript adapters, React components and a Markdown CLI as reusable packages. Parsing is separated from presentation through a shared event model.

Delivered: Inspectable packages, usage examples and test fixtures for Codex CLI, Claude Code, OpenCode, AgentWeb codex-team and GitHub Copilot logs, including inline subagent transcripts where supported.

Source: github.com/codexview/codexview

VOLUNTEER TECHNICAL CONTRIBUTION

HiLily | AI Coach

Guide the team on single- and dual-microphone echo cancellation, recognition in noisy environments and low-latency audio-in/audio-out language-model integration. The work connects hardware development with software and system extension; product delivery is a team effort. hilily.ai

EDUCATION

Master of Information Technology

Southern Institute of Technology, New Zealand · 2021

Diploma in Mathematics and Computer Science

Jiaozuo Teachers College, China · 2004