

Zichen Liu

Senior Consultant · Full-Stack Engineer

Barcelona, Spain
+34 603 783 663

zichen.liu.dev@gmail.com
[LinkedIn](#) [GitHub](#)

Senior Consultant and full-stack engineer with 5+ years delivering enterprise systems and independently owned production platforms across Europe and APAC. Experience spans backend systems in C#/.NET, Java and Node.js; frontend applications with React, TypeScript, JavaScript and Redux; and cloud delivery across AWS and Azure.

AI-assisted changes remain subject to engineering review for correctness, security, test coverage and maintainability; current development focus includes agentic applications, RAG and evaluation.

Core Expertise

Languages	C# · Java · TypeScript · JavaScript	Frontend	React · Next.js · Redux · HTML · Responsive CSS
Backend	.NET / .NET Core · Node.js · Spring Boot · REST · Event-Driven Services	Cloud & delivery	AWS · Azure · Docker · Kubernetes · Terraform · CI/CD
Data & identity	DynamoDB · SQLite · OIDC / JWT · SSO	AI engineering	AI-Assisted Delivery · Generated-Code Review · Azure AI Speech · Agent / RAG Focus

Professional Experience

Thoughtworks

Jul 2021 – Present

Senior Consultant · Full-Stack Engineer · Spain & China

Delivered enterprise platforms across airline loyalty, business finance and healthcare, covering technical discovery, architecture, implementation, quality and production delivery.

01	easyJet Loyalty Platform	United Kingdom
	Led technical evaluation and selection of a loyalty management system, defining the integration approach across identity, data, dependent services and multiple delivery environments. Implemented C#/.NET and AWS services behind shared adapter boundaries, securing repeatable multi-environment delivery with OIDC/JWT, Terraform, automated tests and CI/CD.	
02	Philips Hospital Shared Platform	Germany
	Built a central event-notification service connecting hospital systems, providing a shared channel for real-time patient and emergency updates. Introduced PactNet contract testing and integrated it into CI/CD, catching service-boundary incompatibilities earlier in the delivery workflow.	
03	MYOB Business Finance Management Platform	Australia
	Implemented permission and usage-based billing services for subscription lifecycles, merchant accounts and product consumption, supporting scalable entitlement and charge processing. Connected onboarding, account dashboards, invoice payment and real-time business APIs across frontend and backend services while decoupling user management for continued platform growth.	

Delivery Principles

End-to-End Ownership	Problem framing and architecture through implementation, integration, release and production support.
AI-Assisted Engineering	AI accelerates exploration, implementation and testing; generated changes remain subject to engineer-owned review for correctness, security and maintainability.
Reliability by Design	Contract and end-to-end testing, idempotent workflows, bounded retries, infrastructure as code and recoverable operations.

Systems owned beyond the ticket.

Independent deliveries covering product interfaces, backend services, integrations, security and production operations.

Selected Independent Projects

P01 **Dahua Event Registration & Engagement Platform**

INDEPENDENT END-TO-END DELIVERY

Owned the seven-language Node.js/SQLite platform from interfaces and APIs through retry-safe email automation, calendar integrations, security, DNS and containerized production operations.

- Designed, built and operated a secure seven-language registration platform unifying public registration, administration and restricted client workflows across Node.js APIs and role-specific interfaces.
- Protected valid registrations from downstream email and API failures by modelling consent and integration state in versioned SQLite and implementing an idempotent transactional outbox for safe retries.
- Automated five localized lifecycle emails, calendar actions and operational views, then established recoverable delivery with Docker Compose, Caddy/TLS, Cloudflare controls, health checks and backups.

P02 **Real-Time Bilingual Event Captioning Platform**

INDEPENDENT END-TO-END DELIVERY

Built and operated an authenticated React/Node.js/WebSocket platform using Azure AI Speech Translation, with separate control, English and Chinese presentation clients.

- Built a real-time English/Chinese captioning platform with Azure AI Speech Translation, React, Node.js and WebSockets, supporting continuous language detection, custom terminology and independent presentation clients.
- Secured and operated the live workflow through an operator console, audio-device controls, short-lived Azure tokens, role-gated WebSocket access, Docker Compose, Caddy and HTTPS.

Certifications



AWS Certified AI Practitioner

Amazon Web Services

[Verify credential](#)



AWS Certified Solutions Architect - Associate

Amazon Web Services Training and Certification

[Verify credential](#)



Microsoft Certified: Azure Administrator Associate

Microsoft

[Verify credential](#)

Education

Master of Engineering, Mechanical Engineering

Xi'an Jiaotong University
Graduated 2021

Master of Engineering, Bioengineering

University of Technology of Compiègne
Graduated 2018

Bachelor of Engineering, Biomedical Engineering

Xi'an Jiaotong University
Graduated 2016

Languages

English

Fluent

French

Intermediate

Mandarin Chinese

Native

Spanish

Beginner