

Mingxia Li

Sydney, Australia · 0411 853 108 · leemingxia@outlook.com

mingli.world · github.com/alienz-dev · linkedin.com/in/ming-xia-li

SUMMARY

Senior full-stack software engineer with backend depth and 8.5 years in regulated financial services. At GBST I develop financial workflows across Java and Spring Boot services, a Node.js GraphQL layer and React interfaces in TaxIntell. My work includes auditable tax processing, application delivery on AWS and direct collaboration with product customers. Earlier, at Futu, I built and monitored quantitative systems for a trading business.

TECHNICAL SKILLS

Languages and data:

Java, TypeScript, Python, SQL, Bash; PostgreSQL, Redis

Backend and applications:

Spring Boot, Spring Batch, Node.js, GraphQL, FastAPI, microservices, batch data pipelines; React, Next.js

Delivery and security:

Jenkins CI/CD, Azure Pipelines, Docker, Kubernetes, Helm; RBAC, Keycloak OIDC, dependency scanning, audit trails, observability with correlation IDs

AWS application delivery:

EKS, Lambda, S3, SQS, CloudFront, KMS, Amazon Bedrock

EXPERIENCE

Software Engineer | GBST Wealth Management | Mar 2020 - Present

Capital-markets tax software for global financial institutions.

- Developed TaxIntell, a cloud digital-tax reporting platform supporting preparation, review, approval and submission workflows for several financial institutions. Worked across a Node.js GraphQL layer, Spring Boot services and React front end, with Helm-managed deployments on Amazon EKS.
- Primary contributor to Tax Analyser, an automated tax-calculation platform with auditable calculation decisions. Worked on corporate actions, franking credits and parcel-level reconciliation through a batch data pipeline. Key contributor to the super fund tax calculation engine, with zero critical defects in production across FY26 deliveries.
- Owned the Anchore and Veracode scanning pipeline. Built and run an internal security management platform, live since April 2026, covering scanning, triage, remediation tracking and issue tracker integration. Claude through Amazon Bedrock drafts diagnosis and remediation plans for review, revision and approval by image maintainers, developers and release managers. Triage fell from 45 minutes to about 5; engineering hours spent on CVEs fell 80%.
- Created Python agents for the business-analysis team, pulling data from source systems and applying the correct formulas automatically. A report that took three days now runs in under 30 minutes.
- Scoped tax-relief capability for Qantas Super against the client's interpretation of the 2017 legislation, translating requirements into product work through direct customer collaboration.
- Built SecGate with dependency scanners and LLM-based exploitability analysis. Validated it in shadow mode against Veracode and Anchore, reaching 96%+ overlap. It remains advisory alongside those scanners and flags weaknesses during pull-request review.
- Established spec-driven development on Kiro across the project group and ran engineering enablement sessions. AI adoption was one of four formal FY26 objectives.

- Recompiled and rebuilt existing C/C++ applications for AWS EC2 and compared the cloud deployment with the on-premises environment as part of the migration.

Quant Developer | Futu Securities International | Mar 2017 - Jun 2019

- Developed, deployed and monitored customised quantitative strategies for high-value clients in production, and delivered weekly reports based on the team's research.
- Built a multi-factor equity risk model that improved 5-day index trend forecast accuracy by 35.8%.
- Designed the strategy management system, achieving a 54.2% view-to-bookmark rate on the firm's trading app.

SELECTED PROJECTS

Personal AI application framework

TypeScript, Fastify, Next.js and PostgreSQL. Permission checks run in the same transaction as mutations and audit records. Untrusted model context has no tools, and consequential actions wait for human approval. Personal project, separate from GBST production delivery.

Macquarie Business School case-study platform

Built with Associate Professor Miles Yang: interactive scenarios, decision and progress workflows, and an embedded AI tutor that guides students without giving them the answer. Students opt in with signed consent.

AWARDS

GBST Stand Out Award, Q2 2024. One winner per quarter, company-wide.

Futu five-star employee, top 5%, 2018.

Futu five-star employee, top 5%, 2017.

EDUCATION

MSc Computer Vision, University of Chinese Academy of Sciences (UCAS), 2015

MSc Financial Engineering, The Chinese University of Hong Kong, 2016

BSc Automation, Tsinghua University, 2011

CERTIFICATION

Hong Kong Securities and Futures Commission (SFC), certificate in security analysis, 2018. Expired.