

Benjamin (Ben) Lvovsky

Architecture and Technology Leader — Financial Markets

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PROFILE

Architecture and technology leader in financial markets and capital markets technology, with front-office market data, broker terminals, wealth platforms and money markets behind me and the last decade in cloud and enterprise architecture: Head of Cloud at iSelect leading seven engineers, and at Slater and Gordon the master data platform at the core of a firm-wide transformation is my own concept and design, approved as the firm's architecture direction with its first horizon in production.

Domain expert, architect and leader in one: I have traded equities, options, futures and FX myself since 1999, I hold design authority across systems and teams, and I still build the proof of concept before I ask a team to build the real thing.

MBA and Master of Information Systems Management (Swinburne). Oracle Certified Master Java EE Enterprise Architect. Provisional patent for the market-data broadcasting technology I built at Online Trading Systems. PhD candidate at RMIT University since November 2025, researching multi-agent LLM systems.

FINANCIAL MARKETS HIGHLIGHTS

- Led the technology, design and development of PULSE, the live-data broker terminal built to replace IRESS at CommSec, and of CommSec's Professional Trader retail trading product — Paritech, 2002–03.
- Designed and built a market-data broadcaster streaming live prices to large numbers of online-trading clients, the subject of my provisional patent — Online Trading Systems, 1999–2002.
- Business analysis, architecture and build of a hedge fund's FX and equity portfolio management platform; money-markets systems at NAB; the JBWere Goldman Sachs adviser wrap platform at Avanteos, Commonwealth Bank group — 2005–09.
- Trading equities, options, futures and FX personally since 1999, with my own quantitative research systems from Markowitz optimisation to multi-agent LLM regime detection.

SKILLS

Leadership technology function leadership · target-state and transitional architecture · design authority and assurance · engineering standards · bringing outsourced functions in-house · building teams from zero, onshore and offshore · reporting to managing director and C-level on technical and commercial matters

Financial markets domain equities and ETFs · exchange-traded options and futures · FX · money markets · live market data from ASX and Reuters international futures and FX feeds · broker terminals and retail online trading · adviser wrap platforms, portfolio administration and margin lending · loan servicing (LoanIQ) · portfolio construction, mean-variance optimisation and the capital market line · backtesting discipline: walk-forward, point-in-time universes, survivorship and look-ahead control · options strategies and seasonality · payments, trust accounting and crypto on- and off-ramps · business analysis with fund managers, business owners and operations

Integration and data event-driven architecture · publish/subscribe · API-first design · OAuth 2.0 and machine-to-machine authentication · golden-source client and contact master data designed from first principles · ownership and governance of authoritative data · deduplication, survivorship and matching · large-scale migrations and initial loads · Kafka, Service Bus, Kinesis, JMS, NiFi, Camel

AI and quantitative research multi-agent LLM orchestration and adversarial debate · news-driven signal pipelines with full provenance · machine learning for instrument prediction (SVM, gradient boosting) · Python research pipelines with mutation-tested invariants · controls and null models before claims

Cloud Azure: Functions, Service Bus, Cosmos DB, AI Search, Entra ID, managed identities, PIM, Terraform · AWS: multi-account Organizations, Lambda, ECS, EKS, S3, SQS/SNS, RDS, DynamoDB, Kinesis, IAM and OIDC federation, CloudFormation, VPC topology · cost control

Engineering Python · TypeScript · Node.js · Java and Java EE · C++ · C# · Spring Boot · Docker · Kubernetes and OpenShift · GitHub Actions · Azure DevOps · CI/CD · Oracle PL/SQL, SQL Server, PostgreSQL · TDD

EXPERIENCE

Senior Solution Architect · Slater and Gordon

Aug 2025 – present

Architect for the Legal Practice Systems transformation across Azure, AWS and on-premises systems — now approved, with the first horizon in production. Since moved on to the firm's triage and booking project.

- Proposed and designed the firm's master data platform — my own concept, approved as the firm's architecture direction for client and contact data, with the first horizon in production and the full roll-out of about a million records approved for the next horizons. Built Azure-native on Cosmos DB, Functions, Service Bus and AI Search rather than bought as a packaged product.
- Author and owner of the firm's Azure cloud and integration strategy, written for approval by the CTO, Head of IT and Information Security Officer: identity and zero-trust networking, API management as the integration hub, Service Bus messaging, tiered recovery objectives, data residency, FinOps and a roadmap that includes decommissioning AWS.
- Designed the governance model that makes the platform the sole system of record for golden records: other systems submit create and update requests, the platform decides through matching and survivorship rules and distributes the canonical record, and no consumer writes to it directly.
- Wrote the technical design for the full roll-out, taking the platform from first-release shortcuts to its target state: one owned gateway to the finance system, a bulk-load pipeline sized for a million records, a generic asynchronous interface in place of bespoke adaptors, and observability defined as code.
- Ran the architecture review before the first production release: six risks, from document-size limits to business logic in a shared library, and an audit of managed-identity authentication across 10 services.

Head of Cloud, previously Technical Lead · iSelect (Corporate Travel Management group)

Jan 2024 – Aug 2025

Head of Cloud from March 2025, leading the cloud and DevSecOps function — seven people across AWS and Azure. Technical Lead before that: owned the internal shared services and built a real-time Kinesis pipeline feeding Salesforce and the data lake.

- Brought the function back in-house from an outsourced model, running the knowledge transfer and establishing the documentation practice that had not previously existed.
- Repositioned the team as a technical enablement hub for product teams — standards, consultation and internal education rather than a ticket queue.
- Restructured the AWS multi-account organisation, resolving long-standing inefficiencies in resource use and account design.

Senior Software Engineer · Leidos Australia

Jun 2022 – Jan 2024

Bureau of Meteorology programs: Java microservices on OpenShift, Kafka, NiFi and Camel.

IT Manager & Solution Architect · Ubertas Financial Group / TwigTech

Nov 2018 – Jun 2022

IT for the Ubertas financial group, and the architect and delivery lead who built TwigTech — a property management platform on AWS covering trust accounting and short-stay distribution.

- Reported to the Managing Director and C-level directly on both technical and commercial decisions.
- Built the engineering team from zero: hired locally, established and managed an offshore arm, and ran code review and mentoring while staying hands-on myself.
- Designed and built card-to-crypto and bank-to-crypto payment services for the group, including transaction privacy.

Solutions Architect / Senior Developer (contract) · Australia Post

Nov 2017 – Nov 2018

Modernisation of enterprise systems across several microservices projects.

FINANCIAL MARKETS AND FINANCIAL SERVICES TECHNOLOGY, 1999 – 2017

Ippon Australia — ANZ · IT Architect / Lead Developer

2017

Built a custom OpenID Connect token issuer for ANZ — the identity layer that lets clients verify the end user and retrieve their profile from the authorisation server.

Odecee (Cognizant) — ANZ and NAB · Enterprise Architect / Java Lead (contract)

2015 – 2017

Solution architecture and hands-on delivery of banking service engines across authentication, payments, customer profile and contacts.

VEDA Advantage · Senior Java Developer (contract)

2010

High-performance multithreaded financial application on multi-core hardware, using lightweight threads and zero-copy message passing.

National Australia Bank, Money Markets · Senior Java Developer (contract)

2009

LoanIQ loan-servicing project: Java with TDD, continuous build pipelines, and Oracle PL/SQL and query optimisation.

Ubertas (Kongari) Asset Management, a hedge fund · Project and Team Lead (contract) 2007
Business analysis, architecture and hands-on build of the fund's portfolio management platform for FX and equity markets — a console for managing rules and markets, and overnight market-data services.

National Australia Bank, Money Markets · Senior Application Programmer (contract) 2006 – 2007
Analysis, enhancement and support of money-markets applications in .NET and SQL Server, with BusinessObjects data integration.

Avanteos, Commonwealth Bank group · Senior Software Engineer (contract) 2005 – 2006
JBWere Goldman Sachs adviser wrap platform covering superannuation, shares, managed funds, unlisted investments, cash and margin lending.

OnQ / BillExpress (ASX-listed) and Securrency (RBA) · Senior Software Engineer (contract) 2004 – 2005
Architecture and build of high-load distributed transaction servers: bill-payment processing at OnQ, and real-time production data at the Reserve Bank's banknote joint venture.

Paritech Financial Data Solutions · Solution Architect (contract) 2002 – 2003
Responsible for the technology, design and development of PULSE, a front-office live-data broker terminal built to replace IRESS at CommSec, and Professional Trader, CommSec's retail trading product, which replaced the IMEDIA system previously used by TD Waterhouse. Live ASX, Reuters international futures and Reuters FX data; C++ and C# multithreaded real-time systems.

Online Trading Systems · IT Manager, Internet Broadcasting Technology 1999 – 2002
Designed and built the Broadcaster: a distributed, high-performance server that takes live market data from diverse feeds and re-broadcasts it over the internet to large numbers of clients at low server load, with ActiveX clients for desktop applications and Java clients for live prices in web pages. Led the team; the technology is the subject of my provisional patent.

OTHER EARLIER ROLES

IBM Global Process Services (Medibank) · NEC Australia (Toll, Foxtel) · NetBusiness, J2EE Architect leading a development team · ADP Australia, Solution Architect for the ATO payroll products · Space-Time Research, Systems Architect · Digital MotorWorks International · AON Warranty Group · Looksmart International · Dun & Bradstreet · The Beam Group, Technical Director · Cybec / Vet Antivirus, Project Leader
Full detail at ben.lvovsky.com/finance and on request.

EDUCATION

MBA and Master of Information Systems Management — Swinburne University of Technology 2002 – 2008
Double master's degree. MISM subjects include Contemporary Issues in Business Analysis, Managing the IT Capability, Managing IT-Enabled Transformation, IT Effectiveness and IS Project Management.

PhD, Software Engineering — RMIT University Nov 2025 – present
Multi-agent LLM systems for privacy and security in software delivery.

Master of Computer Science and Engineering — Moscow Mining University

Markets practice Active personal trader since 1999 in equities, exchange-traded options, futures and FX, running advanced options structures and seasonal strategies.

Certifications Oracle Certified Master, Java EE Enterprise Architect (2012) · IBM Certified System Administrator, WebSphere Application Server (2011)

Patent Internet Broadcasting Technology — provisional patent. TCP/IP-based multithreaded market-data broadcasting system, designed and built at Online Trading Systems.

RESEARCH AND PROJECTS

Market Synthesis — adversarial multi-agent LLM regime detection · market-synthesis.lvovsky.com
Discovers macro-financial events from real news feeds, runs a structured debate between specialised agents, and emits auditable signals with full provenance. Detects gaps between market narrative and structural reality at about 0.75 precision out of sample (51 signals since 2023, no look-ahead), holding across five macro regimes over twelve years. 2026.

Markowitz portfolio optimiser · benlvovsky.github.io/markowitz
Interactive efficient frontier and capital market line over 116 cross-asset ETFs: a Python quadratic-program pipeline, a walk-forward backtest on point-in-time universes including delisted securities, and a React front end with no server. I use it for my own portfolio. Current build 2026; first Python version 2017.

Machine learning for financial markets · ml.lvovsky.com
Instrument predictions from roughly 330 attributes — commodity and world-index moving averages, FX, calendar and option-expiry effects — with an SVM recompiled for GPU execution; rebuilt in 2023–24 as a Python batch pipeline on AWS.