Olivier Bregeras

Technical Architect & Engineering Leader: Modern Systems & Business-Aligned Architecture

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TARGET ROLES

Principal / Lead Software Architect

Head of Engineering | CTO

SKILLS

AI & INTELLIGENT SYSTEMS

AWS Bedrock (Claude), LLM integration, AI-assisted decisioning, conversational AI / chatbots, AI security & governance

LANGUAGES & FRAMEWORKS

NodeJS, NestJS, Go, Java, React, Angular

DATA

PostgreSQL, MSSQL, DynamoDB, MongoDB, Mongo Atlas

ARCHITECTURE & CLOUD

DDD, CQRS, AWS (EventBridge, SQS), Terraform, gRPC, Protobuf, Docker

EDUCATION

MSc, Computer Science
Efrei · Paris, France · 1998 – 2001

LANGUAGES

French: Native | English: Fluent

INTERESTS

Software architecture

Cross-functional communication

High-performance engineering teams

Modern delivery practices

EXECUTIVE SUMMARY

Technical Architect and former CTO with 15+ years leading engineering teams and partnering with business leaders across Asia. I specialise in **modernising legacy ecosystems**, designing **cloud-native, event-driven architectures**, and aligning technology decisions with **commercial priorities, regulatory constraints and operational realities**.

I operate at the intersection of **business strategy and technical execution**, translating complex requirements into scalable systems, shaping product direction, and enabling organisations to deliver faster with lower risk. Known for **cross-functional influence**, I help business, product and engineering teams converge on clear decisions, predictable delivery and measurable outcomes.

Most recently I have focused on **AI-enabled decisioning**: architecting an AI-assisted underwriting solution, integrating an AI underwriting decision engine with a chatbot, and contributing to the **AI security and governance** of these initiatives.

CORE CAPABILITIES

AI & Intelligent Systems

- **AI security & governance**: defining the perimeter of where AI can be applied (what it can and cannot do) and establishing technical and functional guardrails for AI-assisted decisioning
- AI/LLM integration into business-critical workflows (AWS Bedrock, Claude)
- AI-assisted underwriting decisioning, from solution architecture to integration
- Conversational AI: connecting AI decision engines with chatbot interfaces
- Bringing emerging AI capabilities into existing enterprise systems

Architecture & Technology Strategy

- Modern software architecture: microservices, event-driven, CQRS, Event Sourcing, DDD
- Legacy-to-modern migration aligned with business priorities
- Cloud-native design on AWS with Infrastructure as Code (Terraform)
- API ecosystems, distributed systems and domain modelling

Business & Cross-Functional Leadership

- Partner with business, product and operations to shape strategy and roadmap
- Translate commercial constraints into architecture decisions and delivery plans
- Structured trade-off analysis and clear technical communication
- Drive stakeholder alignment in regulated, global environments

Engineering Leadership & Delivery

- Agile, Lean and DevOps culture; continuous delivery and automation
- Team building, hiring frameworks and coaching high-performance teams
- Developer experience optimisation and secure-by-design practices
- Delivery predictability and reduced operational friction

PROFESSIONAL EXPERIENCE

Technical Architect, RGA Reinsurance Group of America

Hong Kong · 2022 – Present

Global leader in life and health reinsurance.

- Partnered with business leaders to define a **unified architecture strategy**, aligning modernisation with regulatory and commercial priorities.
- Architected an **AI-assisted underwriting solution** and integrated the AI underwriting decision engine with a conversational chatbot, bringing AI-driven decisioning into the underwriting workflow and contributing to **AI governance and security** for these initiatives.
- Led the transition of a legacy system to **cloud-native, event-sourced microservices**, improving resilience and auditability while reducing operational overhead.
- Established communication frameworks across engineering, product, underwriting and operations, reducing decision latency and improving delivery predictability.
- Designed a **structured hiring and evaluation process** for on-shore and off-shore teams, reducing time-to-hire and improving retention.
- Embedded **security-first, compliance-aligned design** into mission-critical architecture decisions.

Technologies: AWS Bedrock (Claude), AI-assisted decisioning, chatbot integration, NodeJS, NestJS, Mongo Atlas, PostgreSQL, AWS, Terraform, Event Sourcing (EventBridge, SQS), DDD

Lead Full-Stack Software Engineer, Manulife Investment Management

Hong Kong · 2019 – 2022

- Modernised engineering processes with **Agile and Lean** principles, enabling faster, better-informed business decisions.
- Introduced DevOps practices that cut deployment time and improved reliability of business-critical workflows.
- Designed a **CQRS + Event Sourcing architecture** that clarified domain boundaries and improved auditability for compliance and reporting.

Technologies: NodeJS, NestJS, MongoDB, MSSQL, PCF, GitHub Actions, CQRS, Event Sourcing, DDD

Product Engineer, Standard Chartered Bank Hong Kong · 2017 – 2019

- Delivered a new mobile frontend for the unit trust business, improving customer experience and reducing operational bottlenecks.
- Partnered with product and business teams to modernise processes and shorten the SDLC.

Technologies: Java, MSSQL, Angular 5/6

Chief Technology Officer, Jobable Hong Kong · 2017

- Partnered with founders and commercial teams to align product strategy with market needs and operational constraints.
- Implemented Agile, Lean and DevOps practices, improving delivery speed and iteration cycles.
- Designed a microservices architecture enabling rapid experimentation and data-driven product improvements.

Technologies: NodeJS, Docker, MongoDB, ReactJS

Chief Technology Officer, Omnistream Co. Hong Kong · 2013 – 2017

- Strategic partner to C-level executives, translating commercial strategy into scalable technical solutions.
- Designed and maintained a **predictive analytics engine** and distributed certificate delivery system serving major retail clients.
- Built and led a distributed engineering team across Asia with a culture of ownership and continuous learning.

Technologies: Go, R, gRPC, Protobuf, Docker, MongoDB, ReactJS