

Samuel Bourque — Technology Leader

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Executive Summary

Senior technology veteran with experience in finance, AI, and large-scale infrastructure. Former VP at Morgan Stanley overseeing trading systems with \$2B daily volume. Skilled at leading global teams, bridging regulatory/compliance requirements, and integrating AI-driven automation (achieving \$2M cost avoidance at AIG). Demonstrated ability to design and deliver mission-critical trading, compliance, and security platforms in top-tier financial institutions.

Key Skills & Expertise

- **Global Project & Team Leadership:** Managed teams of 50+ engineers across multiple countries
- **AI & Automation:** Integrating AI, building AI-driven software, prompt engineering
- **Trading Systems:** High-volume infrastructure, real-time data, risk management
- **Regulatory Compliance & Governance:** Familiarity with major global financial regulations
- **Security & Reliability:** Incident management, ITSM frameworks, security best practices
- **Full-Stack Development:** Python, Flask, FastAPI, JavaScript, HTML/CSS

Education

MIT Sloan

Artificial Intelligence Implications for Business Strategy 2023

City University of Hong Kong

Juris Doctor 2015

Université de Moncton

BSc Computer Science 2000

Université de Moncton

BSc Physics 1999

Selected Achievements

Autonomous Agents Hackathon

Finished Top 5 2023

EOS Asia Meetup

Founded and managed 2018

TensorFlow Tokyo Meetup

Founded and managed 2015

Scientia Nobilitat

Published: A Lawyer's Introduction to Smart Contracts 2015

Technical Skills

Python, JavaScript, Solidity, TypeScript, C/C++/C#, SQL, HTML/CSS, Bash, Ruby Languages

TensorFlow, PyTorch, GAN, NLP, RAG, AI APIs, Vector Search, Computer Vision AI/ML

AWS, Kubernetes, Github Actions, Terraform, Docker DevOps

PostgreSQL, MySQL, MongoDB, Redis, NoSql, MongoDB, Sybase, Oracle, MemSQL, GraphDB Data Storage

Flask, FastAPI, Django, React, Angular, Vue, Node.js, Express, Flask, Django, Ruby on Rails Frameworks

Professional Experience (Last 10+ Years)

PokPok Crypto-Derivatives Trading Platform

Remote

Chief Technology Officer

May 2024–Present

- Leading technical development for a crypto-options trading platform averaging \$1M weekly notional volume
- Managing globally distributed engineering teams
- Leading incident and change management processes

Sole Proprietor - Various Clients

Remote

AI Integrator

July 2023–Present

- Client work for Ahead Group, Ocha&Co, HM Strategy: AI Integration to streamline operations
- Built and maintaining AI system to upkeep online presence: SEO, Content, Social Media, etc.
- Researching AI integration in operations, compliance and risk management

Nomadic Labs / Tezos

Remote

Head of Production and Infrastructure

May 2020–Jun 2023

- Directed production operations and formalized incident/change management processes
- Maintained 24/7 availability for critical blockchain projects and reduced incident response time by 30%
- (prior to promotion) Led the development of Tezos wallet application

Wowoo Exchange

Singapore

Chief Technology Officer

Dec 2019–May 2020

- Lead the development of the trading engine and trading platform
- Spearheaded regulatory compliance for a high-volume crypto exchange under MAS guidelines
- Streamlined operations and incident response, reducing deployment time by 50, and eliminating failed deployments

Various Blockchain Projects

Global

Founder & Fintech Consultant

Jul 2017–Nov 2019

- Founded Atticus, a smart contract platform for legal agreements
- Advised multiple blockchain ventures on technology
- Developed and maintained various applications for startups
- Built a high-frequency crypto trading platform for a proprietary trading firm

Morgan Stanley

Tokyo, Japan

VP, Head of Trading Systems Infrastructure

Nov 2016–May 2018

- Oversaw deployments of specialized high performance trading systems—largest of which supports \$2B daily trading volume
- Implemented internal Tech Talks to upskill teams on automation and analytics
- Implemented a new monitoring platform to visualize trading system infrastructure
- Improved analytics and monitoring using Tableau and Python

AIG

Tokyo, Japan

Deputy Director

Sep 2015–Nov 2016

- Led 50+ FTEs plus 20+ contractors in the Network Engineering Department
- In charge of hiring and performance management for the department
- (prior to promotion) Created the Network Automation Section
- Reduced manual network changes by 90+%, and reducing vendor costs by 30%
- Achieved \$2M cost avoidance by automating firewall deployments and network provisioning

Earlier Career (2000–2014)

- **Morgan Stanley (Consultant, Network Compliance & Security), Tokyo (2010–2011):** Developed and deployed global compliance platform
- **Infinet Financial Services (Lead Developer/PM), Tokyo (2012–2013):** Built voice trading system
- **Morgan Stanley (Unix Contractor/PM), Tokyo (2007–2008):** Developed compliance software and improved internal processes
- **CryptoLaw/NScript (Co-Founder), Hong Kong (2014–2015):** Launched legal-tech solutions
- Additional roles at QulC Financial Technologies, Génieo Solutions, MacKay Meters, and university lecturing