

John Lonergan

// Executive Director · Senior Principal Software Engineer

London, UK · john.lonergan@gmail.com · linkedin.com/in/johnlonergan · github.com/Johnlon · johnlon.github.io

PROFILE

- ▶ Executive Director and Senior Principal Software Engineer with 30+ years building distributed systems across defence, finance, and cloud infrastructure
- ▶ Engineering lead and technical architect — deeply hands-on, only happy in the code, and clear about what good looks like
- ▶ Track record of raising engineering standards across organisations: introducing CI/CD, automated testing, and modern development practices to teams that didn't have them
- ▶ Develops engineers through code reviews, pairing, architecture sessions, and giving teams the space to grow whilst holding them accountable
- ▶ Strong advocate for inclusive, open cultures where the best ideas win regardless of where they come from
- ▶ Strong opinions, loosely held — collaborative to the core, actively seeks out people with complementary skills
- ▶ Contributor to open source tools used across the industry

EXPERIENCE

Executive Director & Senior Principal Software Engineer

2018 – present

JP Morgan · Cloud Services · London

- ▶ Engineering lead across a collection of feature teams in Cloud Services, applied as a flexible senior resource where the organisation needs it most — adapting to diverse problems across the platform
- ▶ Driving engineering standards, delivery practices, and cross-team design governance at senior principal level
- ▶ Uses every available opportunity — code reviews, architecture discussions, pairing — to develop engineering practices and raise the standard of the craft across teams
- ▶ Gives teams the space to make decisions and grow, whilst holding them accountable to doing the right thing
- ▶ Strong advocate for collaboration: pair programming and standing in front of a whiteboard together to work through problems and find the best solution
- ▶ Actively seeks out people with complementary skills and perspectives — no ego about where the right answer comes from
- ▶ Very hands-on: leads from the code, not from a distance

Director & Technical Lead

2011 – 2018

Bank of America Merrill Lynch · Global Markets Securities Technology · London

- ▶ Lead engineer on the BAML securities straight through processing system in the global securities middle office
 - ▶ Transformed the development culture from manual testing and slow release cycles to CI/CD and automated testing — short iterations, sustainable pace, frequent releases
 - ▶ Introduced automated acceptance testing and Specification by Example using Cucumber
 - ▶ Introduced Scala as the strategic programming language across global markets securities back office
 - ▶ Built a real-time inventory management system using event sourcing and CQRS
 - ▶ Designed a reverse proxy infrastructure for rapid, secure web application deployment
 - ▶ Led standardisation of server provisioning and security infrastructure, massively reducing effort and lead times
 - ▶ Built a data platform to support analytics and machine learning across securities data
 - ▶ Developed junior talent through coaching and pair programming
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Director & Technical Lead

1994 - 2011

UBS Investment Bank · Advisory Technology · London

- ▶ Technical lead for the bank's strategic CRM and Research systems across Java, C#, C++, SQL, and JavaScript
- ▶ One of the leaders introducing agile methods including Scrum to the department
- ▶ Introduced automated testing across the CRM and research platform
- ▶ Built and maintained a web application firewall infrastructure protecting externally-facing bank systems
- ▶ Migrated the bank's CRM from a vendor product to a fit-for-purpose proprietary solution
- ▶ Re-architected analytics integration from Microsoft Office tools into equity research systems — over an order of magnitude performance improvement
- ▶ Worked across telephony integration, network programming, load balancer infrastructure, and research matching systems

Software & Systems Engineer

1986 - 1994

Various — defence, industrial, and commercial

- ▶ Hardware engineering and embedded systems in defence electronics
- ▶ Unix device driver development for integration with industrial machinery
- ▶ Concurrent software design for robotic systems
- ▶ Real-time sampling and control systems
- ▶ Low-level network programming including UDP/SNMP
- ▶ Sybase DBA and consultancy

TECHNOLOGY

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|---|--|
| ▶ Scala · Java · Go · Python · C++ · C# | ▶ Distributed systems design and architecture |
| ▶ Continuous integration & deployment pipelines | ▶ Kafka · JMS · event-driven architecture |
| ▶ Cucumber · JUnit · Scalatest · Scalacheck · Godog | ▶ Web application firewalls · load balancer design |
| ▶ Application security · reverse proxy infrastructure | ▶ Unix systems programming · low-level networking |
| ▶ Relational and NoSQL databases | ▶ Cloud infrastructure and platform engineering |

OPEN SOURCE

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- ▶ **Cucumber / Godog / Behave** — contributor to multiple BDD frameworks across the Java, Go, and Python ecosystems
 - ▶ **Typesafe Config** — contributed the "required includes" feature (PR #421), enabling mandatory configuration file enforcement
 - ▶ **ClasspathHell** — authored a classpath collision detection tool for Java/Scala builds, preventing hard-to-diagnose runtime failures caused by duplicate classes
 - ▶ **slf4jtesting** — authored a concurrent-safe SLF4J logging test utility for dependency-injection based logging verification
 - ▶ **SPAM-1** — designed and built an 8-bit CPU from 7400-series TTL logic, documented on Hackaday; a deep-dive hardware project blending engineering and craft

EDUCATION

B.Eng Engineering Science

1983 - 1986

University of Liverpool