

John Rogers

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## Profile

Software engineer with 7+ years building data analytics systems for regulated healthcare environments. Extensive hands-on experience with HIPAA compliance, GDPR, and European data protection frameworks—trained in handling Protected Health Information (PHI) and implementing data governance controls for US and EU healthcare clients. Built ETL pipelines, Cognos reporting systems, and data visualization platforms at IBM Watson Health and Merative, always within strict regulatory constraints. Earlier career included a decade in IBM hardware logistics and manufacturing leadership. Returned to education at 42, earned a first-class honours degree in Computer Science, and have since worked across the full stack from compliant database queries to React frontends.

## Technical Skills

**Languages:** Java, Python, JavaScript/TypeScript, SQL, Ruby, R, HTML/CSS

**Frameworks & Tools:** Spring Boot, React, FastAPI, Selenium WebDriver, JUnit, Cucumber, Cognos, Snowflake, MDX

**Databases:** PostgreSQL, MySQL, Snowflake, DB2, Oracle

**Compliance & Data Governance:** HIPAA, GDPR, PHI handling, data anonymization, audit controls, access management

**Other:** Git, Docker, Railway, ETL pipelines, data visualization, automated testing, Agile/TDD

## Experience

### Software Engineer – Data Analytics

Merative (formerly IBM Watson Health), Dublin | 2022 – 2024

- Upgraded data visualization web applications serving healthcare clients in both US (HIPAA-regulated) and European (GDPR-regulated) markets
- Built React frontends connecting to Snowflake data warehouses, ensuring all PHI access followed established compliance protocols
- Maintained MDX queries for multidimensional healthcare data analysis with appropriate data masking and access controls
- Completed mandatory HIPAA and European data protection training; applied these requirements daily in feature development

### Software Engineer – Healthcare Analytics

IBM Watson Health, Dublin | 2018 – 2022

- Built customer-requested Cognos reports using Cognos SQL against healthcare datasets containing PHI
- Implemented data access controls and audit logging to meet HIPAA technical safeguard requirements
- Developed automated test suites in Java to validate data integrity and ensure no PHI leakage in report outputs
- Worked directly with healthcare clients to translate regulatory requirements into technical specifications
- Trained in HIPAA Privacy Rule, Security Rule, and Breach Notification requirements

### Software Engineer – Watson Workspace

IBM, Dublin | 2016 – 2018

- Developed automated localization pipeline in Ruby for Watson Workspace, IBM's AI-powered collaboration platform
- Built pagination functionality for ETL data pipelines handling large-scale message data
- Created automated test coverage using Selenium WebDriver and JUnit

### Software Development Intern – QA Testing

IBM, Dublin | Jan 2015 – Sep 2015

- Wrote 25+ automated tests using Java, Cucumber, and Selenium for the Sametime Connect product
- Worked in an Agile, test-driven development environment

### Logistics Analyst – Server Manufacturing

IBM Server Group, Dublin | 2004 – 2011

- Coordinated manufacturing and shipping logistics for multi-million dollar server systems
- Built performance analysis reports using Oracle/DB2 queries, SAP, and Microsoft Office
- Performed business control audits including password controls, separation of duties, and confidential material handling

### Team Leader – Software Manufacturing

IBM Software Group, Dublin | 1999 – 2004

- Managed team of up to 20 operators in CD replication facility

- Delivered 70% above projected output (1.3 million+ units) with 99% on-time delivery in first year
- Led IBM's acquisition integration of Informix product manufacturing under U.S. Securities and Exchange Commission oversight
- Seconded to USA to train vendor staff for outsourcing transition

## Assistant Restaurant Manager

McDonald's Restaurants Ireland, Dublin | 1989 – 1999

Managed daily operations including scheduling, inventory, cash handling, and customer service for high-volume location.

## Education

BSc Computer Science, First Class Honours

National College of Ireland, Dublin | 2012 – 2016

Final year project: Outlier visualization in N-dimensional categorical datasets using R, Tableau, and AWS EC2. Graded 87.5%.

**Diploma in Management Studies** – Dublin Business School, 2005

## Compliance Training

HIPAA Privacy Rule, Security Rule, and Breach Notification (IBM/Merative mandatory training)

GDPR and European Data Protection Regulation (IBM/Merative mandatory training)

PHI handling procedures and data governance for healthcare analytics

## Personal Projects

**MCP-Demo** – REST-to-MCP protocol adapter (Python/FastAPI, Pydantic) with high-performance Rust JSON-RPC parser using PyO3 bindings. Demonstrates MCP gateway patterns. [github.com/RogersJohn/mcp-demo](https://github.com/RogersJohn/mcp-demo)

**Deadlands Campaign Manager** – Full-stack web app (Java/Spring Boot, React/TypeScript, PostgreSQL) for tabletop RPG campaign management. Deployed on Railway. [github.com/RogersJohn/deadlands-campaign-manager](https://github.com/RogersJohn/deadlands-campaign-manager)

**New Arcana Stats Engine** – Monte Carlo simulation engine in JavaScript for board game balance analysis.

[github.com/NewarkCanningCompany/NewArcanaStatsEngine](https://github.com/NewarkCanningCompany/NewArcanaStatsEngine)

**MLForge** – ML model inference API (Python/FastAPI, ONNX, PostgreSQL, Redis, Docker). In development.