

Dorian Bugeja

Head of Data, Analytics & AI

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EXPERIENCE

Technology Consultant — Self-Employed

2026-04 – present

Providing consultancy services to fintech, iGaming and SaaS organisations in data architecture, analytics strategy, AI adoption, engineering leadership and platform modernisation.

Stack: Python, SQL, AWS, Kubernetes, Apache NiFi, ClickHouse, Kafka, PostgreSQL, Docker, Terraform

- Advising organisations on data architecture, analytics and AI strategy
- Supporting engineering leadership, technical due diligence and platform modernisation
- Designing production-grade data platforms and real-time analytics solutions

Part-Time Lecturer — MCAST

2024-02 – present

Deliver undergraduate lectures in Natural Language Processing (NLP), covering modern NLP techniques, machine learning and practical LLM applications.

Stack: Python, NLTK, Machine Learning, LLMs

- Develop and deliver lecture material and practical labs
- Design coursework and assessments using Python and NLTK
- Supervise and assess student assignments

Head of Data & Analytics — Monkeytilt

2025-01 – 2026-04

Led the Data & Analytics function for a rapidly growing crypto-first iGaming platform in Las Vegas. Built the data platform from the ground up and, following organisational changes, assumed wider responsibility across technology, infrastructure and production systems.

Stack: Python, SQL, ClickHouse, PostgreSQL, Kafka, Apache NiFi, Kubernetes, Docker, AWS, Terraform

- Built the company data warehouse and reporting platform from scratch
- Implemented daily operational reporting and automated reconciliation for balances, payments and gaming transactions
- Developed affiliate reporting, player analytics and commercial KPIs including FTD, GGR, NGR, ARPU, ARPPU, retention and LTV
- Worked across Kubernetes, cloud infrastructure and production technology as an individual contributor

Head of Data — River Tech plc

2022-06 – 2025-01

Led the Data department for a Malta-listed fintech company, overseeing data engineering, analytics and AI while managing a multidisciplinary team of six engineers.

Stack: Python, SQL, ClickHouse, AWS, Kubernetes, Airflow, Apache NiFi, Kafka, Docker

- Built and led a multidisciplinary team of six engineers across data engineering, analytics and AI
- Designed real-time data platforms supporting trading, payments, compliance and customer analytics
- Introduced data governance, lineage and operational monitoring
- Worked closely with executive stakeholders to prioritise strategic data initiatives
- Established engineering standards, mentoring and review practices

Lead Big Data Engineer — River Tech plc

2019-03 – 2022-06

Technical lead for big data infrastructure and platform engineering.

Stack: Python, Spark, Airflow, Kafka, AWS, Terraform, Docker, SQL

- Architected a unified data lake handling 50TB+ of trading and customer data
- Implemented GDPR-compliant data retention and deletion pipelines
- Built real-time streaming pipelines for market data ingestion
- Migrated on-premise Hadoop cluster to cloud-native Spark/Airflow platform

Senior Data Engineer — Cerberus Technology

2017-10 – 2019-03

Senior data engineering role in a Malta-based tech consultancy serving financial services clients.

Stack: Python, SQL, SSIS, PostgreSQL, AWS, Docker

- Delivered data warehouse solutions for 3 major banking clients
- Reduced ETL job runtimes by 60% through optimization
- Mentored junior engineers and established code review practices

Data Engineer — Betsson Group

2016-09 – 2017-09

Data engineering for one of Malta's largest iGaming operators.

Stack: Python, SQL, Talend, MySQL, AWS

- Built player analytics pipelines for CRM, marketing and customer segmentation.
- Implemented A/B testing infrastructure for product experiments
- Automated reporting workflows saving 20+ hours weekly

Technical Architect — KPMG Crimsonwing

2015-03 – 2017-01

Technical architect for enterprise Microsoft-stack solutions across Malta and Europe.

Stack: C#, .NET, SQL Server, SharePoint, BizTalk, Azure

- Architected SharePoint and BizTalk integration platforms for enterprise clients

- Led migration projects reducing operational costs by 30%
- Designed microservices architectures for healthcare and finance clients

Senior Analyst Programmer — KPMG Crimsonwing

2013-06 – 2015-03

Senior development role building enterprise business solutions.

Stack: C#, .NET, SQL Server, SharePoint, jQuery

- Developed custom ERP modules for manufacturing clients
- Led agile sprint teams of 4-6 developers
- Reduced bug rates by 40% through TDD and automated testing

Analyst Programmer — KPMG Crimsonwing

2012-06 – 2013-06

Programming enterprise applications for mid-market clients.

Stack: C#, .NET, SQL Server, JavaScript

- Delivered inventory management system for logistics client
- Built reporting dashboards using SQL Server Reporting Services
- Automated batch processes improving efficiency by 25%

Programmer — KPMG Crimsonwing

2011-06 – 2012-06

Software development role in a Microsoft-centric consultancy.

Stack: C#, .NET, SQL Server, JavaScript

- Contributed to multiple client projects across finance and retail
- Learned enterprise development patterns and practices
- Passed Microsoft certification exams while delivering billable work

Co-founder & Director — Ludoi

2012-11 – present

Co-founded a software company delivering bespoke web, desktop and mobile solutions.

Stack: Python, Django, PostgreSQL, JavaScript, TensorFlow

- Designed and delivered bespoke software solutions
- Led software architecture across client projects
- Managed deployments and technical delivery

Software Tester — setcom

2010-04 – 2011-06

Quality assurance and testing for a software products company.

Stack: Selenium, SQL, Bugzilla, JIRA

- Designed and executed test plans reducing production bugs by 50%
- Automated regression test suites using Selenium

- Collaborated with developers to resolve issues early in the lifecycle

External Relations Intern — Malta Communication Authority

2008-07 – 2008-09

Internship in government communications and stakeholder relations.

Stack: Microsoft Office, HTML

- Assisted in organizing stakeholder consultation events
- Researched and compiled reports on digital communications trends
- Supported the launch of .mt domain awareness campaigns

SKILLS

Active — modern data & AI stack

Python

SQL

ClickHouse ★

Apache NiFi ★

Kafka

PostgreSQL

AWS

Kubernetes

Terraform

Airflow

Superset

Docker

Agentic AI

Natural Language Processing

LLM Applications

Also familiar with

Java

Kotlin

C

JavaScript/TypeScript

Assembly

OPEN-SOURCE CONTRIBUTIONS

Apache NiFi — Code Contributor · <https://github.com/apache/nifi>

ClickHouse — Contributor · <https://github.com/ClickHouse/ClickHouse>

EDUCATION & CERTIFICATIONS

Education

- B.Sc (Hons) ICT, Computer Science & AI — University of Malta (2008-09–2011-06)
- M.Sc. AI (Big Data), Artificial Intelligence — University of Malta (2015-09–2016-12)

Certifications

- AWS Certified Solutions Architect - Associate (AWS, 2023)
- MCTS SharePoint 2010 Application Development (Microsoft, 2015)
- MCPS Microsoft Certified Professional (Microsoft, 2014)
- MS Programming in HTML5 with JavaScript and CSS3 (Microsoft, 2014)

- MCTS Microsoft BizTalk Server 2010
(Microsoft, 2015)