

# Luke Whiteley | Curriculum Vitae

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## Experience

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### Sky Betting & Gaming

Leeds

*Engineering Manager*

*May 2022 – Present*

Hands-on technical leadership of the Trading Models team responsible for the Sky Bet Trading Engine (SBTE), providing accurate, low-latency pricing for ~100 000 fixtures every year, taking over £1Bn in stakes.

- o Delivered a recommendation engine to fill key feature gaps during a large-scale business transformation, enabling cash out and stat-tracking functionality on the RequestABet and OddsOnThat products.
- o Owned the on-call rota for the pricing estate, ensuring staff were prepared to handle incidents and maintain stability throughout the football calendar.
- o Line-managed a team of seven engineers, from graduates to senior level, promoting mentorship and identifying development opportunities to drive career growth.
- o Worked with Quant Engineering to implement new markets and pricing optimisations, dealing with a capricious load profile peaking at over 50,000 pricing requests/sec.
- o Collaborated across the product, architecture, and delivery disciplines to improve engineering quality, best practices, and team resilience in an ever-changing business environment.

### Sky Betting & Gaming

Leeds

*Senior Software Engineer*

*Jan 2021 – May 2022*

Developed an inner-source GraphQL framework exposing rich sports and betting datasets as flexible, web-scale services.

- o Valuable PoC work for a project to replatform our coupon pages on a 'shared service' GraphQL architecture, many ideas and lessons from which eventually reached production.
- o Led 'Lunch & Learn' knowledge-sharing sessions on internal systems and broader topics such as AWS, GraphQL, and Kafka.
- o Collaborated x-squad to ship an L&D project of mine (league tables) to customers.

### Sky Betting & Gaming

Leeds

*Software Engineer*

*May 2018 – Jan 2021*

Focused on integrating third-party data feeds into the SBTE, where low latency was critical to avoid placement of late bets.

- o Developed greenfield Kotlin/Spring Boot microservices within a service-oriented architecture running on Kubernetes, heavily utilizing Apache Kafka.
- o Migrated legacy VM-based Node.js monoliths to microservice-based architecture.
- o Maintained legacy infrastructure using Chef, building new services on AWS with Terraform.
- o Member of the 24/7 on-call rota for approximately 25 production services.

## CACI

Leeds

Technical Service Developer

Jan 2017 – May 2018

Provided development and third-line support for four production systems and contributed to a greenfield fifth platform, all within the rail domain. Technologies used: Java, Apache Camel, ActiveMQ, Kafka.

- o Implemented new features according to strict acceptance criteria, adhering to TDD/BDD, SOLID principles, and other best practices.
- o Worked in an agile team using Scrum practices including sprints, standups, and retrospectives.
- o Participated in the 24/7 on-call rota.
- o Collaborated with third parties to develop, test, and debug system integrations.
- o Conducted technical assessments for candidates via 45-minute pair programming sessions.

## Talysis

York

Technical Executive

Sep 2011 – Aug 2013

Talysis specialise in the analysis, interpretation, and application of retail sales data within FMCG (Fast-Moving Consumer Goods) categories.

- o Maintained and expanded the company's technical infrastructure.
- o Created automated data pipelines in Visokio Omniscope, transforming input data for integration with bespoke analytics suites for client delivery.

## Skills

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**Languages:** Kotlin, Java, Elixir, Python, {Java,Type}Script

**Tools:** Kubernetes, Helm, GitHub Actions, CDK, Terraform, Docker, AWS, Jenkins, Jira

**Databases:** DynamoDB, XtraDB, MySQL, AWS Aurora, Redis, MongoDB

## Education

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**Leeds Beckett University**

Leeds

ILM Level 3, Pass

2022

**Newcastle University**

Newcastle

BSc (Hons) Computer Science (Security & Resilience), 2:1

2013 – 2016

Specialising in Security & Resilience, with a dissertation on privacy-preserving Geo-caching using IBM's Identity Mixer on Android for anonymous credential management.

**Year 1:** Programming I & II, Architecture, SWE I, Mathematics, Web I

**Year 2:** SWE II, Team Project, Algorithm Design, Databases, Operating Systems, Networking

**Year 3:** Mobile, Web II, Security, Verification, Cryptography, Reliability & Fault Tolerance, HCI

**York College**

York

Software Development, Triple Distinction\* (100%)

2011 – 2013

**Easingwold School**

Easingwold

GCSEs, Nine A–C, including English, Maths, and Science

2006 – 2011

## References

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Available on request.