

NICK EFE ONI

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PROFILE

Software Engineering MEng student and part-time developer building tested backend, cloud and data systems, with quantified project evidence across financial technology, analytics and insight generation.

EDUCATION

The University of Sheffield

Sheffield

Integrated MEng in Software Engineering, Predicted 2:1

Sep 2023 – Jun 2027

- Relevant modules: Functional Programming 87%, Software Hut 74%, Java Programming 72%, Systems Design and Security 69%, Accounting and Law for Engineers 67%, Data Driven Computing 63%.

CORE SKILLS

Software development: Java, TypeScript/JavaScript, Spring Boot, REST APIs, Next.js.

Data and insight generation: Python, SQL, PostgreSQL, Redis, Power BI, Excel, AWS Glue, Athena, QuickSight.

Cloud, security and testing: AWS, Kafka/Redpanda, Terraform, Docker, JUnit, Bash/Linux, GitHub Actions.

SELECTED PROFESSIONAL EXPERIENCE

Valuto - Part-Time Software Developer

Sheffield, Sep 2025 – Present

- Contributed feature delivery and post-launch maintenance for a live TypeScript/Next.js startup platform, adapting to its existing architecture and team conventions to produce reviewable changes in a production codebase.
- Debugged a failed Railway deployment by reading production logs and tracing the blocker to React vulnerability CVE-2025-55182, giving the team a specific root cause for its resolution plan.
- Converted peer feedback into a coding-standards guide, creating a reusable reference for bringing future changes closer to team expectations before code review.

GTMIC - Volunteer Part-Time Software Developer

Sheffield, Jan 2025 – Jun 2025

- Developed a deployed pharmaceutical audit-management web application in a 6-person Scrum team, translating client processes into a working prototype for stakeholder review - audit-management-system-demo.nick-efe-oni.dev.
- Clarified implementation requirements by reviewing 40+ client/process documents and rewriting user stories and acceptance criteria, giving the team a more consistent delivery backlog.
- Built 6 dashboards and 2 CRUD audit pages from the clarified requirements, producing a client-reviewable demo of audit evidence and record-management workflows.

SELECTED ENGINEERING PROJECTS

TradeStream - Event-Driven Trading Platform

Jul 2025 – May 2026

github.com/VictoriousWealth/tradestream

- Built a local financial-technology trading simulator comprising an API gateway and 7 Java/Spring services, using Docker, PostgreSQL, and Docker Compose to model order, trade, transaction, portfolio and OHLCV market-data flows.
- Implemented PS256 JWT validation, Redis login rate limiting, idempotency ledgers and retry/dead-letter paths, making security and duplicate/failure handling explicit across the service workflow.
- Recorded 500 accepted order requests at 10.5 ms p50 / 26.2 ms p95 and 20,000 successful market-data requests at 2.8 ms p50 / 13.7 ms p95, establishing reproducible latency baselines for two core workflows.
- Validated order rules and API behaviour with 8 passing JUnit service, controller and context tests; scripted end-to-end scenarios covering order types, cancellation, duplicate events, restarts and dead-letter paths.

CommitScope

Mar 2026 – May 2026

github.com/VictoriousWealth/commitscope

- Built an AWS software and data analytics pipeline with Terraform, GitHub Actions, Step Functions and ECS Fargate, turning Git history into code-health datasets queried in Athena and visualised in QuickSight.
- Separated S3 output into raw, processed and curated layers and scoped each run by execution ID, preventing dashboard queries from mixing unrelated executions.
- Generated code-health insights in QuickSight by modelling WMC, LCOM, cyclomatic complexity, coupling, lines of code and commit-level summaries, turning repository history into interpretable engineering trends.

Apache Kafka Security Benchmarking Artefact

Sep 2025 – May 2026

github.com/VictoriousWealth/apache-kafka-artefact

- Built an AWS/Terraform Kafka benchmark on EC2 to compare plaintext, TLS and mTLS, exporting analysis-ready CSV, LaTeX and SVG results.
- Executed resumable JSONL benchmark plans with telemetry and log capture, producing 5,184 valid producer runs and completing all 72 planned consumer validation rows for comparable analysis.
- Analysed matched runs using paired effects, bootstrap intervals and factor sensitivity, finding mean throughput penalties of 10.8% for TLS and 9.6% for mTLS, rising at higher throughput targets.

SELECTED INDUSTRY PROGRAMME EXPERIENCE

BNY - Cybersecurity, Design Thinking & Trading Challenges

London, Jul 2026

- Completed BNY cybersecurity-extortion, design-thinking and trading simulations, evaluating changing security and market information to shape team responses under time pressure.
- Streamlined team communication, mediated differences and encouraged quieter members to contribute, enabling the group to consider a wider range of ideas during the challenges.
- Volunteered to lead the first activity when the group hesitated and encouraged other members to step forward, helping the team begin promptly and distribute participation across the exercises.

G-Research - Coding & Quantitative Finance Challenges

London, Jul 2026

- Completed a G-Research coding-based trading challenge and market-negotiation game, using software engineering, probability and strategy to explore quantitative-finance decision-making.
- Translated trading rules into working code and iterated the solution as the team refined its understanding of the problem, producing a functional approach within the allotted time.
- Tested trading decisions against changing incentives and incomplete information, identifying how participant behaviour could alter wider market outcomes and require the strategy to adapt.

HP - Commercial Product Challenge

London, Jul 2026

- Won a Dragon's Den-style commercial challenge as part of a team by developing and presenting an HP product proposal that connected its technical capabilities to the needs of a target organisation.
- Created the proposal's central value proposition by mapping the product's capabilities to the organisation's requirements, giving the team pitch a clear commercial use case.
- Combined different team perspectives into the final pitch and presented it to a panel within the time limit, producing a structured, concise recommendation tailored to Rolls-Royce's organisational needs.

BAE Systems - Cyber Capture the Flag

London, Aug 2025

- Placed 2nd overall as part of Team NHF in the BAE Systems Cyber Capture the Flag, achieving the competition's highest correct-submission rate.
- Solved time-constrained challenges spanning cryptography, binary exploitation, digital forensics and packet analysis, applying security reasoning and collaborative problem-solving.
- Applied wire-tapping and packet-analysis techniques to identify network vulnerabilities, demonstrating how captured traffic can expose security weaknesses that defenders need to address.

Man Group - Hackathon & Datathon

London, Jul 2025

- Won 1st place in a 3-person team by using Python and SQL to assess Costco's financial and social-media performance during the pandemic.
- Combined financial trends with social-media sentiment to identify evidence of Costco's pandemic resilience and shape the team's investment position.
- Presented the findings to directors and senior executives through a storytelling-led pitch, turning technical analysis into an evidence-led investment narrative.

JMAN Group - Data Consulting Challenge

London, Jul 2025

- Completed a consulting-style project for a simulated supermarket client, analysing sales, customer and product data to support commercial recommendations.
- Cleaned and standardised inconsistent product IDs, formatting and incorrectly scaled revenue data using Python and Excel, improving the dataset's usability for analysis.
- Built Power BI dashboards and presented the resulting insights and recommendations to a consultant panel in a 4-minute client-style pitch.

SELECTED LEADERSHIP EXPERIENCE

The Nigerian Society - President

Sheffield, May 2025 – Jul 2026

- Led society operations across events, content, partnerships, careers and funding, coordinating committee delivery and hands-on event execution for groups of roughly 40–60 people to rebuild community engagement.
- Implemented a reels-led digital strategy that grew Instagram from about 800 to 1,220 followers and reached 197,403 accounts, including 99.7% from non-followers.
- Secured a £1,480 Alumni Fund award through an evidence-led funding case and contributed to the society winning Sheffield SU's Flourishing Student Group of the Year award.