

Manny Singh

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EDUCATION

- University College London (UCL)** BSc Mathematics and Statistical Science Sept 2026 – Jun 2029
- First year modules include analysis, linear algebra, probability and statistics.
- QA Apprenticeships** Level 4 Data Analyst Apprenticeship Oct 2020 – Nov 2022
- Grade: Distinction.
 - Completed alongside full-time work at NatWest Group.
- Cranford Community College** A-levels and GCSEs Sept 2013 – Aug 2020
- A-levels: Mathematics (A*), Further Mathematics (A*), Physics (A*).
 - GCSEs: 10 GCSEs at grades 9–5, including Mathematics (8).

EXPERIENCE

- NatWest Group** Data Analyst, Internal Audit (Data & Analytics) Nov 2022 – May 2024
- Analysed large, complex datasets for audit teams across the bank. Identified insights that informed audit findings, management decisions, and regulatory compliance.
 - Built and maintained automated reports and interactive dashboards tracking KPIs, replacing manual reporting, and improving audit quality.
 - Translated multi-source quantitative findings into clear, actionable summaries for senior management and non-technical auditors.
 - Acted as subject-matter expert on data analysis and led training sessions for auditors and interns, raising department-wide data literacy.
- NatWest Group** Apprentice Data Analyst, Internal Audit (Data & Analytics) Oct 2020 – Nov 2022
- Worked full time as a data analyst while completing formal technical training in programming, data science, and statistics.
- Career break** May 2024 – Sept 2025
- Solo travel and independent study.
- Independent Projects & Maths Tutoring** Sept 2025 – Sept 2026
- Built fishkiller.org; freelance maths tutor; continued independent study.

PROJECTS

- FishKiller** Poker training platform (web + iOS) Feb 2026 – Present
- Co-developing a full-stack app (currently live: fishkiller.org): Node.js/Express and PostgreSQL backend with authentication, ratings, leagues, streaks, and Stripe subscription billing, plus a native iOS app in TestFlight beta.
 - Built a Python FastAPI coaching service that explains graded decisions using a poker game engine (PokerKit), gives LLM feedback (Anthropic API with a deterministic fallback tier), and is checked by a benchmark suite.
- Brewjanitor** Open-source Python CLI tool Aug 2026
- Built a command-line tool that audits macOS apps and safely migrates them to Homebrew, with a test suite and pip packaging.
- Zipsafe** Open-source Python CLI tool Sept 2026
- Built a command-line tool that audits zip files for any potentially unsafe content before it's files are extracted.

SKILLS & INTERESTS

Programming: Python, R, SQL, C++, Java, JavaScript, Swift

App Development: Native iOS development (Swift/SwiftUI)

Data & analytics: Advanced Excel, Power BI, Tableau; data cleaning, modelling, and ETL; Statistical testing

Platforms: AWS, Azure, Dataiku

Professional skills: Stakeholder communication, teamwork, organisation

Interests: Consciousness science, AI research, machine learning, data science, actuarial science, economics, poker, travelling.