PRIESTLY ADEJO

TARGET: QUANTITATIVE DEVELOPMENT / RESEARCH ENGINEERING

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PROFILE

Completed an MEng Mechanical Engineering with Year in Industry at UCL in 2026 and now targeting quantitative development and research engineering. Builds Python/C++ data, backtesting and validation systems, with production-adjacent sensor-fusion work at SLB and a config-driven trading platform run live to 19th place among 440 competition entrants.

EXPERIENCE

SCHLUMBERGER (SLB) | ELECTRICAL & CONTROL SYSTEMS ENGINEER INTERN

STONEHOUSE, UK | AUG 2024 - AUG 2025

- Implemented MWD orientation models using Extended and Square Root Cubature Kalman Filtering, reducing magnetic-bias error by 15% on replayed well data.
- Diagnosed byte-order and scaling defects in LTB data frames, collaborated on a firmware fix and built Python test automation that cut debugging time by 45%.
- Engineered and validated a motor/control digital twin against field traces to within 2% RMS, reproducing stick-slip RPM and supporting clamp-torque analysis.
- Built Python/MATLAB pipelines converting noisy dump-file traces into validated models and engineering evidence for firmware teams.

UCL | MEng CAPSTONE COASTAL MULTI-SENSOR SENSING BUOY, TEAM LEAD

LONDON, UK | AUG 2025 - JUN 2026

- Led a 6-person team building an embedded buoy (sensing, edge processing, storage, LTE telemetry) with Python/C++ verification and store-and-forward resilience.
- Defined a requirements-to-tests-to-evidence framework across mechanical, embedded and data-system workstreams.

URA THRUSTERS | MECHANICAL/ELECTRONICS ENGINEER INTERN

WESTCOTT, UK | JUN 2024 - AUG 2024

- Designed, simulated and documented validation PCBs for PET thruster systems in Altium and LTspice.
- Converted an ESA memorandum into 200+ structured requirements and improved BOM/supplier workflows in Odoo ERP.

SELECTED PROJECTS AND COMPETITIONS

QuantSilico, Config-Driven Quant System, Live in Syphonix "Model to Market" Competition (Solo)

PYTHON | CCXT/YFINANCE → PARQUET | PYTEST | GITHUB ACTIONS | DOCKER

- Ran the system live on a $1M virtual account in a 440-entrant competition, finishing 19th (top-25 prize bracket); shipped live execution fixes under time pressure: broker order-preflight (volume-step/min and stop-distance validation) clearing 10014/10016 rejects, symbol quarantine with graduated retry, and a startup-frozen config snapshot.
- Hardened with 333 passing tests (pytest), ruff/mypy, GitHub Actions and Docker.
- Built a modular YAML-config platform: data ingestion, alpha registry (momentum, mean-reversion, Kalman pairs) and vectorised/event-driven backtesters with vol-targeted sizing, transaction-cost modelling and overfitting-aware validation (walk-forward, purged/embargoed CV, permutation tests, deflated Sharpe).
- Diagnosed split-order execution drag exceeding net P&L on one leg and capped oversized orders as the highest-leverage fix, restoring single-parent fills.

End-to-End Machine Learning for Football Match Prediction

PYTHON | SCIKIT-LEARN | PANDAS | CROSS-VALIDATION

- Built a Python pipeline over 10+ years of EPL data, evaluating models with cross-validation, probability calibration and precision/recall/F1 rather than headline accuracy.

Reinforcement Learning & Path Planning

PYTHON | OPENAI GYM | PYTORCH | Q-LEARNING | SARSA

- Implemented A*, Monte Carlo, TD learning, Q-Learning and SARSA for sequential decision-making, comparing policy quality and convergence under uncertainty.

EDUCATION

UNIVERSITY COLLEGE LONDON (UCL)

MEng Mechanical Engineering with Year in Industry | Completed Jun 2026

Relevant: Machine Learning, Reinforcement Learning, Control Systems, Financial Aspects of Project Engineering, Dynamics, Numerical Modelling

ILFORD COUNTY HIGH GRAMMAR SCHOOL

A-Levels: Mathematics A*, Physics A*, Chemistry A | SEP 2019 - SEP 2021

Academic competitions: Mathematics Olympiad - Bronze (Years 11 and 13); Chemistry Olympiad - Silver (Year 12)

TECHNICAL SKILLS

Programming: Python, C++, MATLAB, SQL, Git, Jupyter

Software Engineering: pytest, GitHub Actions, Docker, ruff/mypy, modular package design, structured logging

Quant Development: data ingestion, alpha registry, vectorised and event-driven backtesting, portfolio sizing, transaction-cost modelling

Research and Validation: walk-forward and purged/embargoed cross-validation, permutation tests, deflated Sharpe, parameter-stability checks

Data and Methods: NumPy, pandas, scikit-learn, PyTorch, CCXT, Parquet, MLflow; Kalman filtering, state-space modelling