

Mykola “Nick” Maklakov

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Education

Queen Mary University of London

Sept 2025 – May 2028 (expected)

BEng Robotics Engineering, Predicted: First-Class Honours

- **Ranked top of the class in Year 1**, with a Year 1 average of **77%** (First-Class standard).
- Awarded the **IMechE Best Student Certificate** for outstanding first-year academic achievement in Robotics Engineering.

Dover College, Dover, UK

May 2022 – July 2025

- A-Levels: **A*AA**: Mathematics (A*), Further Mathematics (A), Physics (A).

Experience

Software Engineer (Internship), Pear Protocol

Feb 2026 – July 2026

- Built and maintained **PyrusHL**, a launched cross-platform **pair-trading** application now at **\$5M in lifetime trading volume**.
- Developed automated **take-profit and stop-loss** logic with atomic on-chain execution on **Hyperliquid**.

Selected Projects

SOTA: AI Agent Marketplace

ETH Oxford (Top 7/150+) · HackEurope (Top 4 Solana/80+)

- Marketplace for autonomous agents covering discovery, bidding and execution; built the core **agentic AI** layer, smart contracts and decentralised storage. **Superteam Ireland grant; selected for Colosseum**.

Statistical Arbitrage Research Pipeline

github.com/kolyamkl/crypto-statarb

- Asset-agnostic Python pipeline: **cointegration**-based pair selection, **Kalman-filter** hedge ratios, cost-aware backtesting and **walk-forward validation** (US equities: **+1.02 Sharpe out-of-sample**).

ArcVault: DeFi Treasury Management

Arc Hackathon

- Solidity contracts with role-based permissions and a React / Next.js frontend for automated payments and yield optimisation.

Technical Skills

Languages: Python, C++, Java, SQL, JavaScript / TypeScript, Solidity

AI & Agents: Agentic AI systems, autonomous agent orchestration, LLM & third-party API integration

Web & Data: React, Next.js, HTMX, PostgreSQL, REST APIs, data pipelines, cross-platform apps

Quantitative: NumPy, pandas, statsmodels, time-series analysis, backtesting, transaction-cost models

Leadership, Awards & Additional

Leadership: Vice President, QMUL FinTech Society: co-organising **Leverage London**, a cross-university AI hackathon with LSE, UCL and King's, and a **UK-wide investment competition** across 20+ universities. Also organising a series of technical workshops on coding and quantitative finance with speakers from industry, including J.P. Morgan.

Awards: IMechE Best Student Certificate (BEng Robotics Engineering, Year 1); 1st place, Poltava Oblast Mathematics Olympiad; 3rd place, Competitive Programming (Ukraine).

Languages: Russian and Ukrainian (native), English (fluent, IELTS), German (pre-intermediate).