

Maximilian Adam

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Education

Imperial College London | London, England

MEng in Computer Engineering (EIE, on track for 1st)

October 2022 – May 2026

Relevant Modules: Cryptography and Coding Theory, Deep Learning, Statistical Signal Processing

Highgate School | London, England

A Levels: Further Mathematics A, Physics A*, Chemistry A*, Mathematics A**

July 2022

Experience

Veriphi Labs | Research Intern, London, England

August 2025 – September 2025

- Worked on Fully Homomorphic Encryption for Multi Party Computation (MPC).

Nova Systems Int | Simulation Intern, Farnborough, England

August 2024 – September 2024

- GPS and Satellite simulation using lua and C++.
- Simulated highly complex conflict scenarios.

Tekever | Machine Learning Intern, Southampton, England

August 2023 – September 2023

- Achieved a 15% improvement in F1 score for drone-view people detection model performance.
- Enhanced model robustness via data cleaning, transformation, and visualization with Python (Pandas, Scikit-learn, NumPy) and FiftyOne.
- Collaborated with team throughout to define and meet model performance goals.
- Provided write ups for all key areas worked on, summarising viability and effectiveness of each idea involved.

Williams Formula One | Data Analyst Intern, Grove, England

June 2023 – July 2023

- Developed and implemented a tool to visualise wind tunnel data on key metrics.
- Improved and implemented real time functionality for a tool used to stream live car simulation data into excel.
- Worked together with an existing employee to create a platform used to improve the manufacturing pipeline.
- Presented the platform and displayed how it could improve efficiency of the manufacturing pipeline to internal staff.

Projects

- Developed and documented various projects including a compiler, RL In hand manipulator, neural network mini-library, balancing robot, CPU in Verilog, and various ML models utilizing LSTMs, neural networks, GBMs, transformers, and YOLO.
- Enjoy engaging in diverse competitions and challenges, including IBM's Hackathon, Jane Street's Monthly Puzzles, IC Hack, Imperial Algothon, Citadels Correlation One and Numerai's Data Science Tournament.
- Love researching and learning about ideas in cryptography, quantum gravity, computer architectures, machine learning architectures and consciousness.

Skills & Interests

- Programming Languages: Python (Pandas, Scikit-Learn, Pytorch, Tensorflow), C++, MATLAB, SQL, Lua, XML, Go, Rust.
- Areas of Expertise: Statistical Analysis, Machine Learning, Simulation, Data Visualisation, Cryptography.
- Spend most of my free time playing Piano, Boxing and Climbing.