

# Izaac Mammadov JP

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## EDUCATION

- **Corpus Christi College, University of Cambridge** Cambridge, UK  
October 2019–June 2022  
*B.A. (Hons) Mathematical Tripos [Mathematics]*
  - High 1st Class, scoring 84% and ranked 18th out of ~250 students.
  - Awarded two scholarships for academic excellence, including the Richard Metheringham prize by the Worshipful Company of Cutlers.
- **The Latymer School** London, UK  
September 2012–June 2019  
*A Levels in Mathematics, Further Mathematics, Physics and Chemistry*
  - A\*A\*A\*A\* (A Level), SSS (STEP Mathematics), Silver Medal in British Mathematics Olympiad (top 50).

## WORK EXPERIENCE

- **Gattaca** London, UK  
November 2025–Current  
*Software Engineer*
  - **Low-latency Development:** Developed low-latency infrastructure in **Rust** as part of “**TitanBuilder**” (block-builder on **Ethereum** mainnet with the largest market-share) and “**TitanRelay**” (a popular **Ethereum** relay to connect validators and block-builders).
  - **Alt-Chains:** Worked on **Solana** block-building and validator execution scheduling.
- **Highbury Corner Magistrates Court** London, UK  
May 2025–Current  
*Magistrate Judge / Justice of the Peace (JP)*
  - **Magistrate:** Volunteer Judge, adjudicating summary and either-way criminal cases and sentencing defendants.
- **The Quarry LP** Remote  
January 2024–November 2025  
*Quantitative Researcher*
  - **Strategy Creation:** Created and improved on quantitative strategies based on Bayesian machine-learning techniques, with a focus on trading equity volatility.
  - **Strategy Backtesting:** Backtested medium-frequency quantitative strategies and created reports outlining their profit metrics and analysis on their hyperparameters.
  - **Portfolio Optimisation:** Created interactive pages to display results surrounding optimal portfolio allocation and calculating mean-variance efficient portfolios, as well as sandboxes for visualising different portfolio weightings.
  - **Derivatives Pricing:** Developed systems for pricing a variety of vanilla and exotic derivatives and calculating their respective greeks for the purposes of backtesting and execution.
- **Wintermute Trading** London, UK  
July 2022–December 2023  
*Algorithmic Trader*
  - **Market-Making:** Refined high-frequency market-making strategies which traded dozens of cryptocurrencies across multiple exchanges, as well as automated the setting of parameters for those strategies using A-B testing.
  - **Exchange Integration:** Integrated centralised cryptocurrency exchanges’ endpoints (Order Entry, Order Feed etc.) using WebSockets, REST and FIX protocols.
- **Flow Traders** Amsterdam, The Netherlands  
June 2021–August 2021  
*Trading Intern*

## INTERESTS AND SKILLS

- **Programming:** Proficient in **Python** (including **aiohttp**, **matplotlib**, **numpy**, **pandas**, **scikit-learn** and **scipy**), **C++** (including the **boost** libraries) and **Rust** (including **tokio**). Experienced in managing **PostgreSQL** and **MongoDB** databases and **AWS** infrastructure (**EC2**, **S3**, **RDS**).
- **Projects:** Currently run my own self-hosted website, build with static site generator **Hugo** and served by **NGINX**, as well as my own email server and mailbox using **Dovecot** and **Postfix**. I also run my own self-hosted **Urbit** star.
- **Foreign Languages:** Raised in a bilingual household speaking English and Russian as well as Azerbaijani.
- **Interests:** Promoting Free and Open-Source software use and helping people maintain their privacy. Cryptography and Crypto CTF (Capture The Flag) competitions.