Luka Adzic

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EDUCATION

University of Pennsylvania | Wharton School *Expected Graduation: May 2028*
Bachelor of Science in Economics | Finance Major **GPA: 3.69/4.00**

EXPERIENCE

University of Sydney – Sydney, Australia May *2025 – August 2025*
Quantitative Researcher

- Developed econometric models in Python and MATLAB to detect financial bubbles across 26+ S&P 500 equities, 1996–2023.
- Applied rolling-window time-series analysis across multiple horizons, validating statistical signals for real-time bubble probability estimation
- Designed and tested quantitative algorithms that improved robustness of bubble identification frameworks

LEADERSHIP

Maritime@Penn – Philadelphia, PA *September 2024 – Present*
Founder & President

- Founded University of Pennsylvania's first maritime club, growing membership to 100+ students and 1,000+ followers on socials
- Created six committees to execute projects in maritime finance, engineering, law, logistics, and innovation.
- Organized 15+ speaker events featuring executives from the world's largest maritime due diligence company and Top 100 Most Influential Maritime Professionals, connecting students to mentorship opportunities, internships, and industry experience

PVK Jadran – Herceg Novi, Montenegro *September 2021 – September 2024*
Student Athlete & Waterpolo Captain

- Led Jadran to a national three-peat championship (2021–2023)

PROJECTS

Interactive Financial Bubble Detection Dashboard *July 2025 – August 2025*
Python, MATLAB, Plotly, Next.js

- Developed an interactive financial risk visualization dashboard using Next.js, React.js, TypeScript, and Plotly, analyzing 26+ S&P 500 equities and indices.
- Integrated Python (NumPy, Pandas) and MATLAB statistical models for time-series analysis, options market data (put/call ratios), and volatility estimation across rolling windows (1996–2023).
- Deployed on Vercel with responsive design, multi-asset comparison, and date filtering for institutional-style risk monitoring and portfolio management

FIFA Momentum Tracker *January 2025 – March 2025*
Python, Scikit-learn, OpenCV, PyAutoGUI, ML

- Built a ML model using Python and scikit-learn achieving 82% accuracy in momentum prediction and 20% win rate improvement
- Automated decision system using PyAutoGUI and statistical algorithms reducing false positives to <2% while maintaining 75% confidence thresholds
- Implemented computer vision pipeline with OpenCV for real-time data analysis processing 8 quantitative features at sub-second latency

TECHNICAL SKILLS

Languages: Python, OCaml, TypeScript, SQL, MATLAB
DevOps & Tools: Git/Github, Vercel, Convex, Docker, AWS, API/REST, Cursor, TailwindCSS, React.js, Node, Next.js, Plotly, sklearn, Excel, Agile/Scrum