

LUKA ADZIC

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EDUCATION

University of Pennsylvania | Wharton School
Bachelor of Science in Economics | Finance Major

Philadelphia, Pennsylvania
Expected Graduation, May 2028

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

PROJECTS

Financial Bubble Detection Dashboard

May 2025 – August 2025

Plotly, Typescript, NumPy, Python, MATLAB, Next.js, React.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

EAFC/FIFA Momentum Tracker

January 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

WORK/RESEARCH EXPERIENCE

Research Intern | University of Sydney - School of Economics

Sydney, NSW

Supervisor: Dr. Simon Kwok

May 2025 – August 2025

- 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
- Contributed to academic research by designing and testing algorithms that improved robustness of bubble identification frameworks.

Co-Founder & Lead Developer | Pingless

January 2025 - Present

Enterprise AI/SaaS Development Agency

- Architected scalable AI & SaaS applications using Next.js and cloud infrastructure (AWS & GCP), OAuth2 authentication, Docker containerization, and CI/CD pipelines delivering sub-second load times and 99.9% uptime.
- Led technical delivery for \$12-18k enterprise projects implementing custom LLM agents, automated workflows, RESTful API integrations, and ML pipelines for financial services and technology clients while maintaining 100% client satisfaction and 1-week average delivery cycles

LEADERSHIP

Founder & President | Maritime@Penn (MAP)

Philadelphia, PA

Official student club @ University of Pennsylvania

September 2024 - Present

- 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 10+ 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