

# RAFLYANDI ALVIANSYAH

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## EDUCATION

<b>Bina Nusantara (BINUS) University</b> <i>Bachelor of Computer Science – Mobile Application &amp; Technology</i>	Jakarta, Indonesia
	Aug. 2023 – Expected May 2027
<b>AkademiCrypto</b> <i>Intensive Program in Quantitative Trading, Blockchain, &amp; Web3</i>	Online
	Oct. 2023 – Present

## EXPERIENCE

<b>Founder</b> <i>TradeWCryp (Web3 Educational Platform)</i>	Oct. 2025 – Present
• Developing an educational platform focused on Web3, cryptocurrency trading, and investment strategies for a global audience.	Remote
<b>Data &amp; Finance Strategist (Part-Time)</b> <i>WorldBeforePandemic (Fashion Startup)</i>	Aug. 2023 – Present
• Analyzed raw sales, inventory, and financial data to provide actionable insights directly to the CEO for strategic decision-making. • Engineered a "StockFlow HeatMap" using advanced Google Sheets to identify high-velocity products and optimize restocking. • Measured influencer marketing ROI by correlating sales data with campaign timelines to guide future marketing budget.	Jakarta, Indonesia

## PROJECTS

<b>Quantitative Trading &amp; Backtesting Platform</b>   <i>Python, Pandas, NumPy, FastAPI, ccxt, yfinance</i>	Oct. 2025 – Present
• Architecting the backend logic for an algorithmic trading platform with a Python-based backtesting engine. • Implemented and backtested 4 core strategies: Grid Trading, Mean Reversal (RSI, BB), Momentum (MACD), & Multi-Timeframe Analysis. • Analyzed strategy performance using key financial metrics (Sharpe Ratio, Max Drawdown) against a Buy & Hold benchmark. • Developing a <b>FastAPI</b> backend to serve strategy endpoints and portfolio data to a companion iOS app (in development).	
<b>AI Urban Traffic Controller</b>   <i>Python, YOLOv5, PyTorch, OpenCV, Git</i>	Aug. 2024 – Dec. 2024
• Developed an AI system to optimize traffic flow by dynamically adjusting signal timings based on real-time vehicle volume. • Implemented and fine-tuned a YOLOv5 model, achieving <b>95%</b> vehicle detection accuracy in testing. • Simulations demonstrated a potential reduction in traffic congestion by over <b>20%</b> compared to fixed-timer systems.	
<b>Open-World Dinosaur VR Experience</b>   <i>C#, Unity Engine, Oculus SDK</i>	Jan. 2024 – May 2024
• Programmed complex C# scripts in Unity for the Oculus platform, engineering AI behaviors for dinosaurs and interactive environments.	

## LEADERSHIP & ACTIVITIES

<b>Chairman (President)</b> <i>Youth Scientific Group (KIR SMAN 3 Tangerang)</i>	Aug. 2022 – Aug. 2023
• Led an organization of 300+ members; implemented strategic programs that increased membership by <b>+160%</b> (from 120 to 320).	Tangerang, Indonesia
<b>Startup Competition Winner (2nd Place)</b> <i>Bpreneur (BINUS Entrepreneurship)</i>	Aug. 2024 – Dec. 2024
• Co-founded "DapoerKelana," an F&B cloud kitchen concept, securing 2nd place in the Startpreneur business competition.	Jakarta, Indonesia

## TECHNICAL SKILLS

**Languages:** Python, Swift, Kotlin, C#, Java, C++, Dart, Solidity (Basic), SQL  
**Data & AI Libraries:** Pandas, NumPy, Scikit-learn, PyTorch, YOLOv5, OpenCV, Matplotlib, Seaborn  
**Tools Platforms:** Git, GitHub, FastAPI, Unity Engine, Jupyter, Android Studio, Xcode, ccxt, yfinance