

Deliko Hartono

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About Me

Information Technology student at **Binus University** with a passion for AI, quantitative finance, and full-stack development. Experienced in **Agile Scrum** delivery (6 sprints), end-to-end secure application development, and **fintech integration**. Built real-world platforms featuring **JWT authentication**, **QRIS payments via Midtrans** (including callback signature verification), and real-time communication.

Education

Binus University | GPA: 3.0/4.0

Aug 2023 – 2027

Bachelor's in Information Technology – Jakarta, Indonesia

Experience

Community Manager, Trading Community – Remote

Apr 2024 – May 2024

- Managed a Discord trading community with over 500 active members
- Organized trading discussions, market analysis sessions, and educational content
- Moderated community interactions and maintained engagement through events and discussions
- Developed understanding of financial markets and trading psychology through community interactions

Customer Service Assistant, Family Retail Business – Jakarta, Indonesia

2020 – Present

- Assist customers with purchases and provide product information in family-owned store
- Handle customer inquiries, process transactions, and manage return procedures
- Developed customer service skills and gained experience with point-of-sale systems
- Support daily store operations while balancing academic commitments

Projects

B-Connect Platform

May 2025 - June 2025

- Led development of a full-stack freelance platform for Binusian students using **Agile Scrum** (6 sprints with prioritized product backlog and measurable deliverables).
- Implemented **JWT-based authentication** with role-based authorization, validation middleware, secure secrets management, and error/audit logging.
- Integrated **QRIS payments via Midtrans Core API**: transaction creation, **callback/notification handling with signature verification**, and idempotent status updates.
- Built features including real-time chat (Socket.io), product management, review/rating, search/filter, and project monitoring dashboards.
- **Technologies Used**: React.js, Node.js, MongoDB, Socket.io, CSS3, **Midtrans Core API**

AI-Powered Bitcoin Portfolio Optimization and Backtesting Framework

May 2025 - June 2025

- Built a **research prototype** for Bitcoin portfolio optimization combining **LSTM** signals, **Black–Litterman** allocation, **Enhanced CVaR** risk controls, and **PPO** for simulated execution
- **Backtested** on BTC–USD (2019–2025); **simulation-only**, excludes fees/slippage; validated with walk-forward time-series splits
- Engineered RSI and Keltner features; designed and tuned the LSTM architecture for signal generation
- Implemented Bayesian portfolio views and multi-component CVaR to manage tail risk in volatile markets
- Built an automated pipeline and custom **PyTorch** PPO training loops

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, Java, C++ , SQL

Web Development: React.js, Node.js, Express.js, HTML5, CSS3, RESTful APIs

Mobile Development: React Native, Flutter, Android Studio

AI & Machine Learning: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Data Analysis, PPO, LSTM

Database & Tools: MongoDB, MySQL, PostgreSQL, Git, Docker, Figma, Adobe Creative Suite, Agile Scrum

Finance & Trading: Quantitative Analysis, Algorithmic Trading, Financial Modeling, Market Analysis, CVaR, Black–Litterman

Concepts: Data Structures & Algorithms, OOP, Agile/Scrum Methodologies

Languages

Indonesia: Native

English: Fluent