Muhammad Ruhunul Luthfi

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https://github.com/luth0910 | https://luthfi-portfolio.vercel.app

A highly motivated Final Year in Informatics Engineering from the Faculty of Industrial Technology, Gunadarma University. Experienced as a practicum assistant and intern in Metaverse Development (Blockchain), with strong analytical thinking, adaptability, and a deep passion for technology. Committed to continuous learning and ready to contribute in dynamic, collaborative, and innovative work environments.

Education

Gunadarma University   *Sep 2021 - Present*

Bachelor of Computer Science (GPA 3.83/4.00)
- **Relevant Courses :** Algoritma dan Pemrograman, Kecerdasan Buatan, Komputasi Big Data, Pemrograman Web, Sistem Basis Data, Teknologi Kecerdasan Artifisial.
- Conducted scientific research titled "Deep Learning Model for Stock Price Prediction of PT Astra International Tbk Using LSTM (Long Short Term Memory)," which was published in the SINTA 3-ranked Jurnal Ilmiah Ekonomi Bisnis (Economic Bulletin), Vol. 30, No. 1, in April 2025. DOI: http://dx.doi.org/10.35760/eb.2025.v30i1.11870

Work Experience

Gunadarma University   *Sep 2024 – Nov 2024*
Assistant for the Mata Kuliah Praktikum Unggulan
- Led and managed a team of lab assistants, overseeing practical sessions, resolving technical issues, and ensuring efficient workflow for timely student support.
- Supported technical laboratory courses, Komputasi Big Data, Robotika Cerdas, Social Networking & Content Creation, and Kecerdasan Artifisial & Masyarakat, assisting students via the Twakto live chat system and ensuring a high query resolution rate.
- Provided real-time technical guidance and lab management, maintaining system uptime and ensuring seamless operations.
- Assisted students with Python and data science libraries (NumPy, Pandas, Scikit-learn) for laboratory tasks, enhancing their analytical and computational skills.
- Guided students in using the campus-provided DGX system for laboratory tasks, helping them optimize GPU-accelerated computing and troubleshoot technical issues.

Direktorat Jenderal Pendidikan Tinggi, Riset, dan Teknologi   *Feb 2024 – Jul 2024*
Metaverse Developer (Blockchain) Intern
- Developed a character controller in Unity using C# for the Metaversitas project, ensuring smooth and responsive avatar movement while enhancing user interaction in a dynamic virtual environment.
- Designed and implemented a real-time chat system in Unity using C# and Rust, resulting in faster message delivery, improved communication flow, and a more immersive 3D experience for users.

Gunadarma University   *Sep 2023 – Jan 2024*
Assistant for the Mata Kuliah Praktikum Unggulan
- Assisted students in Komputasi Big Data, Robotika Cerdas, Social Networking & Content Creation, and Kecerdasan Artifisial & Masyarakat through live chat on Twakto.
- Provided clear guidance on programming issues and managed lab schedules via live chat to support learning and project completion.
- Utilized Python and data science libraries to aid students in data analysis, visualization, and machine learning for real-time problem-solving.
- Guided students in using the campus-provided DGX system for laboratory tasks, ensuring efficient GPU-accelerated computing.

Project

Deep Learning Model for Stock Price Prediction of PT Astra International Tbk Using LSTM   *Mar 2024 – Jul 2024*
University of Gunadarma

- Conducted scientific research research on the application of Long Short-Term Memory (LSTM) networks for predicting stock prices of PT Astra International Tbk.
- Developed and implemented an LSTM-based deep learning model for PT Astra International Tbk (ASII.JK) stock price prediction, achieving 98.55% accuracy with a Mean Absolute Percentage Error (MAPE) of 1.45% on test data
- The paper was published in April 2025 in Deep Learning Model for Stock Price Prediction Analysis Using Long Short Term Memory (LSTM). DOI: http://dx.doi.org/10.35760/eb.2025.v30i1.11870.

Gunadarma University   *Sep 2024 – Jan 2025*
Pengel. Proyek Perangkat Lunak
Kosan Iphenk Financial Management System

- Collaborated with the project manager to create the Project Charter, Business Requirement Document (BRD), Work Breakdown Structure (WBS), and Responsibility Matrix for the Financial Management System Kosan Iphenk.
- Collaborated with the team to analyze project requirements, define scope, and document roles and responsibilities.
- Designed a financial management system using Figma to streamline and enhance transaction recording for boarding house residents efficiently and transparently.
- Developed a web-based financial management system using HTML, CSS, JavaScript, and Bootstrap to track income, expenses, and overall financial management.

Training and Certification

Cyber Security Bootcamp Online – MerdekaSiber (Batch 16)   *May 2025 – Jul 2025*

- Completed an intensive online training focused on fundamental cybersecurity concepts.
- Learned basic techniques in ethical hacking, network security, and web vulnerabilities.
- Practicing with security tools such as Burp Suite for web application testing and Wazuh (SIEM) for security monitoring and log analysis.

Skills and Language

- **Technical Skills**
- **Programming:** Python, SQL, C#
- **Cybersecurity (Basic):** Web Vulnerability Testing (Introductory), Ethical Hacking (Introductory)
- **Database Management:** SQL Server, MySQL
- **Data Science (Basic)**: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Keras, Seaborn.
- **Web Development:** HTML, CSS, JavaScript, PHP (Basic)
- **Version Control:** Git, GitHub
- **Other Tools:** Twakto (Live Chat Support), Figma (Design), Microsoft Word
- **Language:** Indonesian (Native), English: Intermediate (Passive understanding).
- **Soft Skills**
  Time Management, Team Work, Communication, Time Management, Adaptability, Initiative, Technical Troubleshooting