

Muhammad Farras Prasetya

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Online Profiles: [GitHub](#) | [LinkedIn](#) | [Instagram](#) | [Portfolio](#)

IT undergraduate passionate about Web3, blockchain, and decentralized application (DApp) development. Skilled in programming, problem-solving, and educational content creation, with hands-on experience building mini blockchain projects. Committed to leveraging technology for innovation, collaboration, and real-world impact.

WORK EXPERIENCE

Content Creator — Technology & Web3 Education

Founder & Lead Creator

- Produced and managed 30+ educational videos covering Web3, blockchain, and emerging technologies, reaching over 10,000 combined views across platforms.
- Led a small creative team of 3 peers, improving consistency and engagement through planned content schedules and performance analytics.
- Built a personal brand focusing on technology education and decentralized innovation, resulting in a 40% growth in audience within 6 months.
- Translated complex blockchain and decentralized concepts into accessible educational narratives for non-technical audiences.
- Collaborated with developers and fellow creators to ensure content accuracy, design clarity, and audience relevance.

Blockchain Project Developer (Self-Learning Initiative)

Personal Research Project

- Designed, tested, and deployed multiple smart contracts using Solidity and Remix IDE.
- Built and iterated decentralized applications (DApps) integrating MetaMask and Web3.js for blockchain-based interaction prototypes.
- Deployed ERC-20 and NFT token contracts on Ethereum test networks (Goerli, Sepolia), focusing on functionality and gas optimization.
- Documented development process publicly on GitHub and social media to support peer learning and community engagement.

Freelance Web Developer & Technical Support

Developer & Consultant

- Designed and maintained responsive websites using HTML, CSS, and JavaScript for small business clients.
- Assisted clients in basic digital transformation, including implementing Git-based version control and website optimization.
- Delivered user-friendly web interfaces improve client satisfaction and system usability by 25%.
- Provided IT support for deployment, debugging, and performance testing under limited resources.

EDUCATION

Universitas Sumatera Utara (USU), Medan

2023 – Present (Expected Graduation: 2027)

Bachelor of Information Technology

- Relevant Coursework: Data Structures, Web Programming, Database Systems, Cybersecurity, Artificial Intelligent, Machine Learning, Software Engineering.
- Academic Focus: Web development and emerging digital systems.

PROJECTS

The Neural Vault (RAG Chatbot)

- Built a "Second Brain" AI interface allowing recruiters to chat with my professional resume in real-time.

- Implemented a Hybrid RAG Architecture combining Groq's instant inference with Google's high-dimensional embeddings (768-dim) for accurate context retrieval.

Dream Minter AI (Web3 + GenAI)

- Developed a decentralized platform where users generate AI art from text prompts and mint them as NFTs instantly.
- Utilized IPFS for decentralized metadata storage, ensuring true ownership of digital assets.
- Optimized Smart Contracts on Polygon Amoy to reduce gas costs for minting transactions.

Blockchain Voting DApp (Web3.js, Solidity)

- Built a decentralized voting application prototype integrated with MetaMask for secure and transparent on-chain voting.
- Implemented smart contract logic using Solidity and deployed on Ethereum test network via Remix IDE.

ERC-20 Token Smart Contract

- Developed and deployed an ERC-20 token with minting and transfer functionalities.
- Practiced gas optimization and smart contract testing on testnets (Goerli / Sepolia).

Personal Portfolio Website

- Designed and built a responsive portfolio website to showcase Web3 projects and content creation work.

LEADERSHIP ACTIVITIES

BEM FASILKOM-TI, Universitas Sumatera Utara

2023 – 2025

Member – Division of Business and Technology

- Contributed to the planning and execution of technology-related initiatives within the faculty's business and innovation division.
- Collaborated with cross-functional teams to organize seminars and digital entrepreneurship programs for IT students.

Committee Member — 13th Dies Natalis of FASILKOM-TI USU

Dec 2024

Member – Division of Consumption

- Assisted in event coordination and technical operations for the faculty's anniversary celebration.
- Collaborated with multiple divisions to ensure event logistics and promotional media execution ran smoothly.
- Strengthened teamwork and communication skills through collaboration with diverse committees.

CERTIFICATIONS

IELTS Academic

Dec 2023

Band 7.5 / CEFR C1

CFA Institute

Aug 2023

CFA Level I

TICMI

Nov 2021

Investment Manager Representative

LANGUAGES AND SKILLS

Language

- Indonesian (Native), English (Intermediate), Mandarin (Beginner).

Technical Skills

- Programming Languages: Python, JavaScript, Solidity.
- Blockchain Development: Smart Contract (Solidity), DApp Integration, Basic On-Chain Interaction, Web3.js.
- Tools & Workflow: Git, Visual Studio Code, Remix IDE.

Soft Skills

- Problem Solving, Critical Thinking, Team Collaboration, Adaptability, Communication, Confidentiality, Continuous Learning, Public & Private Speaking.