Nguyen Van Manh | Software Engineer

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Summary

Passionate software engineer with expertise in Blockchain, AI, and Web Development. Strong problem-solving skills, hands-on experience in decentralized applications (DApp), and AI-driven solutions. Always eager to enhance technical capabilities and contribute to impactful projects.

Education

Saigon University
Major in Software Engineering   *2021 - Present*
English Certificate B1

Work Experience

BeBank
Fresher Blockchain Developer   *12/2024 - 03/2025*
- Developed and deployed decentralized applications (DApp) using Solidity, Golang, and JavaScript.
- Researched and implemented Layer 2 scaling solutions and blockchain consensus mechanisms.
- Optimized smart contracts to enhance security and performance, reducing gas fees by 30%.
- Collaborated with cross-functional teams to integrate blockchain solutions into existing systems.

Nhat Nam Corporation
IT Support   *04/2024 - 08/2024*
- Designed, developed, and maintained corporate websites using WordPress, improving UI/UX design.
- Performed SEO optimization, boosting search rankings and increasing site traffic by 25%.

Teky Academy
STEM Instructor   *06/2023 - Present*
- Taught robotics programming and automation using Python and JavaScript.
- Mentored students for international robotics competitions (WRO, FLL), achieving high rankings.

Personal Projects

DApp Meeting Platform:
- Developed a decentralized video conferencing application leveraging Web3 technology.
- Integrated WebRTC for real-time communication and Solidity for secure smart contracts.
- Designed an on-chain identity verification system, reducing unauthorized access risks.
- Implemented AI-driven features using MediaPipe for real-time face mask application and background removal, enhancing user engagement during video calls.
- Technologies: Solidity, Golang, JavaScript, WebRTC, Cloudflare Calls, MediaPipe.

Vietnamese Law Chatbot:
- Built an AI-driven chatbot for legal consultation using Retrieval-Augmented Generation (RAG).
- Designed and implemented a vector search system using FAISS for efficient legal information retrieval.
- Integrated chatbot with a Flask-based web interface, enabling user-friendly interactions.
- Technologies: Python, Flask, FAISS, NLP.

AI-Powered Remote Control Robot:
- Engineered a real-time web-controlled robot with AI-based gesture recognition.
- Implemented computer vision algorithms using Yolov8 for accurate gesture detection.
- Developed WebSocket-based communication for low-latency control and feedback.
- Technologies: Python, Yolov8, WebSocket, Raspberry Pi.

Skills

Programming: Python, Java, C++, JavaScript, PHP, Golang, Solidity		*Proficient*
Frameworks: Django, Laravel, Flask, Gin		*Proficient*
Development Tools: Git, MySQL, MongoDB, Atlas, Milvus		*Proficient*
Soft Skills: Communication, Presentation, Teamwork		*Strong*

Achievements

SRobot 2019: Top 3

Coplay with UIT 2023: Top 8

Sudo Code 2024 NLP: Top 10 AI - Road to Devfest