

NGUYEN MINH KHOA

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EDUCATION

VinUniversity – College of Engineering and Computer Science

Bachelor of Science – Computer Science

Hanoi

Sep 2023 – 2027 (Expected)

- Champion Of Change for Innovative Initiatives and Breakthrough Achievements – 2023
- VinUni 80% Merit-based Scholarship
- VinUni Young Talent Pool Scholarship

Royal Melbourne Institute of Technology University Vietnam

Honors Bachelor of Engineering – Software Engineering

Ho Chi Minh City

Oct 2022 – Jun 2023

- Cumulative GPA: 4.0/4.0

Le Hong Phong High School for the Gifted

Honors Mathematics Program

Ho Chi Minh City

Aug 2019 – May 2022

- Odon Vallet Scholarship, issued by Rencontres du Vietnam – 2022
- Scholarship for Talent in Math and Artificial Intelligence, issued by VNUHCM – 2022

TECHNICAL SKILL

Programming: C/C++, C#, JavaScript, Java, Python, MATLAB, SQL, Solidity, HTML/CSS

Frameworks/Libraries: ASP.NET Core, Node.js, Express.js, React, JavaFx, Hardhat, Foundry, web3.js

Developer Tools: Git, Postman, Docker, MongoDB, CMake, Visual Studio, Visual Studio Code, Power BI

EXPERIENCE

EcoFunds – SolarAid Blockchain Initiative

Founder, Technical Leader

Hanoi

Nov 2023 – Present

- Founded and led EcoFunds, a Solana blockchain-based philanthropy platform utilizing Compressed NFTs to raise funds for solar panel installations in underprivileged Vietnamese communities.
- Architected and developed a web3 platform integrating traditional payment methods for NFT purchases for a seamless user experience while maintaining transparency.
- Achieved top-ranking results in three hackathons, secured support from Solana Superteam Vietnam, and oversaw the research and planning for the first campaign launch in March 2024.

VinUniversity – College of Engineering and Computer Science

Student Research Assistant

Hanoi

Nov 2023 – Present

- Collaborated on the Trustworthy Federated Learning project, guided by Professor Kok-Seng Wong.
- Conducted a literature review on Backdoor Attack in Federated Learning.

VietUnion Online Services Corporation – Payoo

C/C++ Developer Intern

Ho Chi Minh City

Nov 2022 – Aug 2023

- Researched, implemented, and wrote documentation for a C library on POS Machines to read information stored in Vietnamese Citizen Identification Card IC chips using NFC and SAM protocols.
- Developed a highly portable minimal RSA library in C compatible with various POS Machines.

RMIT Neo Culture Tech Club

Technical Project Manager

Ho Chi Minh City

Nov 2022 – Jul 2023

- Led a team of four to develop the Club's Landing page using Express.js, Next.js, MongoDB, and Contentful.
- Led a team of four to develop a "Hand gesture controller Flappy Bird game" featured on Club Day with Pygame and MediaPipe.

PROJECT

Ticket Management System – Technical Advisor for Student Association of HCMC University of Medicine and Pharmacy

Express.js, MongoDB, Nodemailer, React, Vite, Vercel

Nov 2023 – Dec 2023

- Independently designed, implemented, tested, and deployed a ticket issuing and management system for internal use.
- Successfully operated with over 360 issued tickets and no errors on the C.A.T Workshop Day (3/12/2023).

Throttle Valve Controller – Top 2, CodeRace Competition by Bosch Global Software Technologies Vietnam

Arduino UNO, H-Bridge Driver, OpenModelica, Pytest

Apr 2023 – Jul 2023

- Developed a PID controller embedded in the Arduino UNO to control the throttle valve to the given set point, which can detect jams, handle abrupt full openings, and autotune the PID constants using the Ziegler-Nichols method.
- Simulated the system with OpenModelica and integrated it with the automation test using Pytest, resulting in 92% accuracy.

AWARD

- Top 1, Main Track at Solana Consumer Hack 11 by Solana Superteam Vietnam – 2024
- Top 1, DApp Track at Winter Ideathon by Web3 Space – 2023
- Top 1, Eco-ID Hackathon by Eco Young Leaders Camp – 2023
- Top 2, Gateway to Blockchain Competition by Synesis One and CareerLab – 2023
- Top 2, CodeRace Competition by Bosch Global Software Technologies Vietnam – 2023
- Top 2, "Fintech" Challenge by Timo at HackYouth Hackathon by UpYouth – 2023
- Top 3, Economics - The Vision of You and Me by UEH University – 2023
- Consolation Prize, Vietnam Mathematics Olympiad – 2022
- First Prize, Ho Chi Minh City Mathematics Olympiad – 2022