NGUYEN MINH KHOA

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EDUCATION

VinUniversity
Bachelor of Science – Computer Science — Sep 2023 – 2027 (Expected)
- VinUni 80% Merit-based Scholarship

Royal Melbourne Institute of Technology University Vietnam – Cumulative GPA: 4.0/4.0
Honors Bachelor of Engineering – Software Engineering — Oct 2022 – June 2023

Le Hong Phong High School for the Gifted
Honors Mathematics Program — 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, Express.js, React, JavaFx, Hardhat, Foundry, NumPy, Pandas, Matplotlib, MediaPipe, Pygame, Pytest
Developer Tools: Git, Docker, Postman, MongoDB, CMake, PyCharm, Jupyter Notebook, Visual Studio, Visual Studio Code, Power BI

EXPERIENCE

CareerLab
NFT Project Leader — July 2023 – Present
- Led the CareerLab NFT project and executed ideas for NFT utilities and design while fostering communication between developers and designers to list an NFT collection on the SeekHYPE marketplace.
- Integrated NFTs as an access subscription to the CareerLab Network Discord server, enabling entry to private events.

VietUnion Online Services Corporation – Payoo
C/C++ Developer Intern — Nov 2022 – August 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 types of POS Machines.

RMIT Neo Culture Tech Club
Project Manager — Nov 2022 – July 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.

Le Hong Phong Photography Club
Photographer — Oct 2019 – Aug 2022
- Organized an online First Meeting Event with 200+ participants during the Covid-19 pandemic lockdown.
- Conducted offline workshops to train 15 new members to use Adobe Lightroom and Adobe Photoshop.
- Took and edited photos for 12 school events for posting on the club's Facebook page, with over 30,000 followers.

PROJECT

Throttle Valve Controller – Top 2, CodeRace Competition by Bosch | Arduino UNO, H-Bridge Driver, OpenModelica, Pytest
- Developed a PID controller embedded in the Arduino UNO to control the Throttle Valve to the given Set Point, which can detect jam, handle abrupt full opening, 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.

Transparent Funding – Top 2, "Fintech" Challenge by Timo at HackYouth Hackathon | Hardhat, React, Thirdweb, MetaMask, Goerli Testnet
- Developed and deployed smart contracts using Hardhat for a web3 solution that enhances the transparency in charity funding.
- Integrated NFTs as exchangeable tokenized tangible assets to donate instead of ERC-20 tokens.

AWARD

- Top 2, Gateway to Blockchain Competition by Synesis One and CareerLab – 2023
- Top 2, CodeRace Competition by Bosch – 2023
- Top 2, "Fintech" Challenge by Timo at HackYouth Hackathon – 2023
- Top 3, Economics - The Vision of You and Me by UEH – 2023
- Top 30, RMIT Business Analyst Champion – 2022
- Consolation Prize, National Mathematics Olympiad – 2022
- First Prize, Provincial Mathematics Olympiad – 2022
- First Prize, Provincial Mathematics Olympiad – 2021
- Silver Medal in Mathematics, Traditional April 30 Olympiad – 2021

CERTIFICATE

- VietAI – Statement of Accomplishment with Distinction – The Machine Learning course
- Goldman Sachs – FinTech Engineering Virtual Experience Program Completion – Crack leaked password database
- IBM Skills Network – Introduction to Cloud Computing