Nguyen Huy Hieu

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Experienced full-stack engineer with strong proficiency in data structures and algorithms. Skilled in DevOps practices, consistently delivering high-quality solutions to complex technical challenges.

WORK EXPERIENCE

Fullstack Developer   **Sep 2024 - Present**
Remitano - Cryptocurrency Exchange   **Remote**
- Developed a RESTful API for the payment system, enhancing reliability and security, resulting in a **20%** improvement in error detection speed.
- Optimized the payout interface for makers, achieving a **50%** faster payout process.

Software Engineer Intern   **Jul 2023 - Aug 2024**
Teko Solution JSC   **Hanoi**
- Developed and maintained web application using **FastAPI** and **Python** to assist Sales in customer care and reporting to managers in efficiency and streamlined communication.
- Developed a website using **Golang** in a monorepo to manage forests and carbon credits for users in Africa, resulting in a **20% increase** in user engagement. Simplified the map loaded from the server, resulting in a **70% reduction** in user's map loading time and a **50% decrease** in API response size.
- Improved the **CI/CD** pipeline for the project by implementing auto-generation of proto files reduced build time by **20%** and setting up testing on bazel resulting in a **15% increase** in overall testing efficiency.
- Developed components related to forms, maps, and notifications in a mobile app using the **Flutter** framework
- Implemented a **CI/CD workflow** to automatically publish the **Flutter app** using **Fastlane** resulted in a **60% decrease** in deployment time.

Researcher   **Mar 2022 - Apr 2023**
Software Engineering Laboratory VNU University of Engineering and Technology   **Hanoi**
- Developed a source code analysis tool in **Java**, C Sharp, and PHP that represented dependencies in graph form using frameworks and **JavaScript**, resulting in a **60% increase in speed** for Dependency Analysis.
- Published a paper about the tool and submitted it to **The Scientific Research Conference for Undergraduates 2023** at UET-FIT. I also built **microservices** and **authentication** for the tool.

EDUCATION

Bachelor of Information Technology   **Jun 2021 - Jan 2025**
VNU University of Engineering and Technology Hanoi   **GPA:** 3.5
- Special Prize in the Naprock Procon Competition in Japan 2024
- Champion in the The National Procon 2023
- Third prize in The 2021 ICPC Asia HaNoi Regional Contest
- Second prize in the 2021 ICPC Vietnam National Programming Contest
- First prize in the IAI-Hackathon (UET Hackathon) 2023
- First prize in the Coding Inspiration Hackathon Organized by FPT Japanese club in 2023

Major in Informatics and Physics   **Jan 2018 - Jan 2021**
Lao Cai High School for the Gifted Students Lao Cai
- Consolation prize in Vietnam National Olympiad in Informatics (2020 – 2021)
- Silver Medal in The Hung Vuong competition for high school gifted student

SKILLS

Developer Tools: Git, Github, Postman, Docker, Kubernetes

Technologies: C/C++, Python, Java, Golang, Javascript, SQL, React, Ruby

PROJECTS

Smart Home   **Mar 2024 - Jun 2024**
The Smart Home project developed a mobile app for managing IoT devices with map-based visualization, using Home Assistant, Flutter, and Spring Boot. I contributed to app and backend development, IoT control, and Firebase Notifications integration, achieving a 30% faster response time, 25% better alert reliability, and 90% user satisfaction in testing.

MindMap AI   **Aug 2023 - Nov 2023**
In the MindMap AI Project, I developed a web application that helps users create mind maps and flowcharts. The application utilizes AI to automatically generate mind maps and flowcharts based on user input, resulting in a 30% reduction in time spent on creating diagrams.

Dictionary   **Oct 2022 - Dec 2022**
In the Dictionary Project, I implemented a Trie data structure to reduce search time by 80% compared to conventional methods, enabling efficient word suggestions based on shared prefixes. Additionally, I integrated the Google Translate API for English to Vietnamese translation.

LANGUAGES

Vietnamese (Native proficiency) • **English** (Professional working proficiency)