Thai Nguyen Gia Bao

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Education

Ho Chi Minh University of Technology - VNU   District 10, Ho Chi Minh City
Computer Science, Honors program. GPA 3.8/4, 8.88/10   Ungraduated

Project

TickPortal   9-2024
- Developed a Discord bot that centralized notifications from Gmail, Facebook to Ticklab's Discord, automated workflows for email forwarding, CV management, and candidate scheduling, streamlining HR processes.
- Solo project, achieved a 50% time reduction in HR workload
- Techs: ExpressJs, Google API (Gmail, Drive), Facebook API, Discord API, Notion API

Smart Student Printing Service   8-2024
- Designed and developed a web platform that allows students to locate available printers, manage print jobs, and track usage
- Team leader, backend developer in a 6-member team
- Techs: Express.js, OpenAPI, ReactJS, Typescript, Bootstrap, PostgreSQL

SmartHome   2-2025
- Developed a mobile app that allows users to control devices remotely, automate routines, and monitor environmental conditions.
- Team leader, full-stack developer, and designer in a 5-member team
- Techs: ReactNative, Expo, NativeWind, NestJs, PostgreSQL, AdafruitIO

IQThaiSon   2-2025
- Developing an English-learning platform for real users, equipped with advanced features including preventing unauthorized sharing, secure video streaming to prevent unauthorized downloads, payment management, and course administration."
- Full-stack developer, Figma designer in a 2-member team
- Techs: NextJs, ExpressJs, TypeScript, SocketIo, PostgreSQL, AWS S3

Activities

Research about Decentralized Federated Learning   1-2025
- Advisors: Nhan Trong Phan, Ph.D
- In progress, research about the privacy-preserve and apply blockchain in Decentralized Federated Learning.

Manage virtual machine for TickLab   12-2024
- OS: Proxmox VE
- Research Team: created two VMs, one for primary tasks and another for backup; enabled PCIe passthrough for GPU acceleration to train machine learning models.
- Engineering Team: set up dedicated VMs for team members to isolate workloads and ensure project separation.

Skills & Interests

Programming Languages: C/C++, JavaScript/TypeScript, Python, SQL
Frameworks/Library: ReactJs, NextJs, TailwindCSS, Bootstrap, ExpressJs, NestJs, ReactNative
Tools: Docker, CI/CD, Nginx, GitHub
OS: Ubuntu, Proxmox VE
Language: English, Vietnamese (native)
Interests: math (calculus), table tennis