

Thai Nguyen Gia Bao

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Education

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

District 10, Ho Chi Minh City
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: Express.js, Gmail API, Facebook API, Discord
- 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
- A mobile app that allows users to control devices remotely, automate routines and monitor environmental conditions.
 - Team leader, full-stack developer, designer in a 5-member team
 - Techs: ReactNative, Expo, NativeWind, NestJs, PostgreSQL, AdafruitIO
- GitHub Metrics** 6-2024
- Building a tool that automates the creation of GitHub metrics (repository stats, recent activities, coding habit)
 - Solo project
 - Techs: JavaScript, Octokit/rest (GitHub API)

Activities

- Research about Decentralized Federated Learning** 1-2025
- Advisors: Nhan Trong Phan, Ph.D
 - In progress, research about the performance (optimized aggregation, gradient compression), the security & privacy (DP, SMC, HE), protocols (peer-to-peer, blockchain-based) and the applications (healthcare, industry 4.0)
- 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