

# BUI KHANH DUY

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## Backend Developer

### EXPERIENCE

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#### Maxflow R&D

Software Engineer (Intern) ~ 11 months

Jun 2023 – Now

Hanoi, Vietnam

- **Project: Battery Logistics Simulation**

- \* Initiated a Digital Twin Supply Chain project, using OOP style and SimPy.
- \* Improved 2x performance while handling 3x more objects than the functional style.
- \* Debugged legacy code and analyzed historical data to identify abnormal problems.
- \* Worked independently, divided complex problems into smaller tasks, and wrote monthly reports.

- **Project: Battery Logistics Visualization and Optimization**

- \* Tech stack: FastAPI, Flask, MySQL
- \* Migrated codebase from Flask to FastAPI
- \* Implemented ZeroMQ for inter-service communication
- \* Maintained and updated legacy APIs, ensuring compatibility with ongoing project developments

#### Hapi Solution

Software Engineer (Intern) ~ 4 months

Apr 2022 – Jul 2022

Hanoi, Vietnam

- **Project: Goopay Wallet**

- \* Developed backend functions with unit tests and constructed APIs using Flask.
- \* Monitored the deployed project and quickly responded when problems happened.

### PERSONAL PROJECT

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#### Grab Simulator Website

Aug 2023– Aug 2023

- **Github:** [github.com/kidclone3/grab-simulate](https://github.com/kidclone3/grab-simulate)
- **Description:** Educational project. Crafted a simulated system akin for Grab, leveraging expertise gained at Maxflow. This project, emphasizing backend and simulation systems, received praise from the instructor.
  - \* **Tech stack:** SimPy, ZeroMQ, FastAPI (mostly), NextJS (basic)

### EDUCATION

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#### VNU - Hanoi University of Science

Hanoi, Vietnam

Oct 2020 – Now

- **Major:** B.S Computer and Information Science, **GPA:** 3.3, **Expected graduation:** Jun 2024

### AWARDS

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- ICPC Vietnam Northern (2022), National (2021) - Third Prize
- National Informatics Olympiad (2021 - Third Prize), (Non-IT - 2020 - Second Prize)

### TECHNICAL SKILLS

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**Proficient:** C++, Python, Linux

**Tools:** Git, VSCode, JetBrains tools

**Languages:** Vietnamese, English