Huy Tran

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EDUCATION

DePauw University — Greencastle, IN
Bachelor of Arts in Computer Science and Mathematics — *Aug. 2021 – Dec 2025*

EXPERIENCE

Software Engineer Intern — Summer 2024
SAGO AGRO Co., Ltd — *Vietnam*
- **Doubled the product's revenue** by deploying a **full-stack web application** to expand digitally the company's product reach online.
- **Optimized** the daily execution time by **75%** by implementing **MySQL** and **MongoDB** to manage databases.
- Architected the **desgin** of data pipelines using **Apache Spark and Kafka**, acceleration processing time by **48%**.
- Desgined an **AI chatbot** to handle customer service queries and generate recommendations for new customers.

Software Development Engineer Intern — July 2023 – Aug. 2023
IpserLab Co.,Ltd — *United States*
- Constructed **the product categories filter feature** for the company application's front end, attracting over **7000 real-time visits**.
- Integrated **Stripe API** to the company's application, **boosting** transaction processing speeds by **50%**.

Network Security Engineer Intern — May 2023 – July 2023
National University Social Science and Humanities — *Vietnam*
- **Decreased metadata manipulation rates by 5.81%** by implementing **JWT** in the server's back end to authenticate users.
- Employed **ORM libraries** to **sanitize students' raw data**, reducing injection vulnerabilities by **90%**.
- Built **web firewalls** to protect against **malicious requests** and **SQL injections** for the server of **3000 users**.

Information Technology Support Specialist — Summer 2022
National University Social Science and Humanities — *Vietnam*
- Created a **MySQL database** for **3000 users** to maintain network and database security.
- Integrated **PowerShell** to manage the server **cloud infrastructure** and **automate network tasks** for 1000 computers.
- Troubleshot **100+ computers** for network's connection issues.

PROJECTS

DeBuddy | *Python, Flutter, Dart, Django, PostgreSQL, Twilio*
- Created **mobile application** with a visual **DePauw's map** to **connect students** around the school campus.
- Designed and built **real-time interactive chatbox** with encoded **DePauw's user IDs** only, allowing **live messaging** between users.
- Customized **notification features** using **Twilio** and **Flutter's libraries** to generate local and SMS notifcations.
- Integrated **Google Maps API** to feature **live location** tracking and navigations and **route optimizations**.

T&H shop | *HTML, CSS, Java, React.js, Node.js, Express.js, AWS, MySQL, MongoDB*
- Developed a **full-stack website** that allow customers to **purchase myriad coffee beans online**
- Designed **a best-seller product recommendation system** for users based on customer reviews, purchase history, and review activities.
- **Deployed** the application on **AWS** to optimize performance and enhance security against cyberattacks.

Forex Trading Bot | *Python, MetaTrader 5 API, Pandas, Pytz*
- Constructed **a machine-learning trading system** that executes buy and sell orders on the Forex platform.
- Integrated **MetaTrader 5 API** to **fetch live market data**, manage user accounts, and handle order execution, stop-loss, and take-profit conditions.
- Added functions to **track and calculate profit/loss** for open and closed positions, enabling data-driven decision-making and trade analysis.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres, MySQL), TypeScript, JavaScript, HTML/CSS, R, GO, Ruby
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI, Express.js, PowerShell, PowerBI, Django
Developer Tools: Git, Docker, TravisCI, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, AWS
Libraries: pandas, NumPy, Matplotlib, Flutter, MetaTrader 5 API, Google Maps API