

VU TIEN DAT

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Profile

- Fourth-year Mathematics and Computer Science student at VNU University of Science with a strong interest in **software development** and scalable technology systems.
- Hands-on experience in full-stack web development, backend engineering, data processing, and database systems through academic and industry projects.
- Passionate about learning new technologies, solving real-world problems, and developing scalable and efficient systems.

Education

Hanoi, Vietnam	VNU, University of Science	2023 – Present
• B.S. in Mathematics and Computer Science. GPA: [3.42]. • Relevant Coursework: Linear Algebra, Probability and Statistics, Optimization, Discrete Mathematics, Machine Learning, Database Systems.		

Experience

Fullstack Developer Intern	JVB (Japan Vietnam Business)	Jun 2026 – Aug 2026
• AI-powered Learning Management System (LMS) GitHub <i>ReactJS, TypeScript, Java Spring Boot, FastAPI, MySQL, Redis, Qdrant, Docker</i> – Developed backend services using Java Spring Boot and MySQL, implementing RESTful APIs and core business logic. – Integrated a separate Python AI service for AI-powered learning personalization and content processing. – Used Docker, Redis, and MinIO for service integration, data management, and application deployment.		

Technical Experience

Projects

- **Inventory and Sales Management System** [GitHub](#)
ReactJS, Vite, TailwindCSS, Java Spring Boot, MySQL
 - Developed a full-stack web application for managing products, orders, and warehouse inventory.
 - Built RESTful APIs for CRUD operations and order processing.
 - Designed responsive user interfaces using ReactJS and TailwindCSS.
 - Implemented database schema and inventory tracking features.
- **Improved Temporal Graph Convolutional Network for Traffic Forecasting** [GitHub](#)
Python, PyTorch, Graph Neural Networks, GCN, GRU, Attention
 - Developed an improved Temporal Graph Convolutional Network (T-GCN) for spatio-temporal traffic forecasting.
 - Combined graph convolution, recurrent neural networks, and attention mechanisms to model spatial and temporal dependencies in traffic data.
 - Integrated temporal and external features to improve the representation of traffic patterns across road-network nodes.

Languages and Technologies

- **Programming Languages:** Java, Python, SQL, TypeScript
- **Frontend:** ReactJS, Vite, TailwindCSS, HTML, CSS
- **Backend:** Spring Boot, FastAPI, RESTful APIs, Spring Security, JWT
- **Databases Storage:** MySQL, Redis, MinIO, Qdrant
- **AI Search:** RAG, Vector Search, Vector Embeddings
- **Tools Platforms:** Git, GitHub, Docker, Gurobi

Activities

- Awarded the title of “Outstanding Student of Hanoi”.
- Participated in organizing the “DataFlow 2025” competition and technical activities.
- Participated in the “Summer Program on Mathematical Modeling (SPMM 2026)”.