TRUONG NGUYEN THANH

Fullstack Developer

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github.com/truong-backend

PROFILE

Fresh graduate Backend Developer with deep understanding of Java, Spring Boot, and comprehensive database systems. Expert in complete database design lifecycle from requirement analysis to deployment, with advanced proficiency in both MySQL and SQL Server (Triggers, Functions, Stored Procedures, Views, Transactions, Cursors). Strong foundation in OOP principles, data structures & algorithms, and proven ability in full-stack development. Demonstrated expertise in building secure RESTful APIs with JWT authentication and responsive web applications. Strong problem-solving mindset with logical thinking approach and excellent teamwork experience.

EDUCATION

Saigon University of Technology - Faculty of Information Technology   2021 - 2025
Bachelor of Information Technology - GPA: 8.22/10   Ho Chi Minh City, Vietnam

- Research Interest: Web Development, Frontend and Backend Programming
- Web Applications: Responsive Design, Database Management, API Integration

CORE COMPETENCIES

Algorithm & Problem Solving: Data Structures, BFS/DFS, Binary Search, Tree Traversal, Hash Tables, Linear/Exponential Search
Database Design & Analysis (A-Z): Complete database lifecycle from requirement analysis to deployment, Entity Relationship Modeling, Normalization, Data Collection & Analysis
API Development: RESTful API Design, JWT Authentication & Authorization, Frontend-Backend Integration
Database Administration: Advanced MySQL & SQL Server - Triggers, Functions, Stored Procedures, Views, Transactions, Cursors, User Management, Performance Optimization
Software Testing: Black Box Testing & White Box Testing methodologies, Test Case Design, Quality Assurance fundamentals
DevOps Fundamentals: Basic CI/CD concepts, Containerization with Docker, Version Control workflows
Real-time Communication: WebSocket implementation, Real-time data streaming, Live updates and notifications

TECHNICAL SKILLS

Core Strengths (Deep Understanding):
Programming Languages: Java, C++ (OOP, Data Structures & Algorithms)
Backend Framework: Spring Boot (JWT Authentication, RESTful API Design)
Database Systems: MySQL & SQL Server (Advanced: Triggers, Functions, Stored Procedures, Views, Transactions, Cursors, Indexing, Query Optimization)
Algorithm & Data Structures: BFS/DFS, Binary Search, Tree Traversal, Hashing, Linear/Binary/Exponential Search

Proficient:
Frontend Technologies: ReactJS, JavaScript, TypeScript, HTML, CSS, TailwindCSS
Development Tools: Git (Version Control & Team Collaboration), IntelliJ, VS Code, Postman, Maven, Docker, Bitbucket
Other Technologies: C#, ASP.NET Framework, ASP.NET Core, Entity Framework
Languages: Vietnamese (Native), English (Basic Communication)

PROJECTS

Student Attendance Website   **April 2025 - Present**

Tech Stack: Spring Framework, ReactJS, MySQL, TailwindCSS
GitHub: Backend — Frontend
Team Size: 1 (Individual Project)
Key Achievements:

- Designed and implemented secure RESTful APIs with JWT-based authentication system
- Developed comprehensive attendance management modules with role-based access control
- Built responsive user interfaces using ReactJS and TailwindCSS with optimized user experience
- Created automated attendance reports and real-time statistics dashboard
- Analyzed business requirements and designed normalized database structure for optimal performance
- Implemented frontend-backend integration with proper error handling and data validation

Bookstore E-commerce Website   **October 2024 - December 2024**

Tech Stack: C#, Entity Framework, Microsoft SQL Server, TailwindCSS
GitHub: Project Link
Team Size: 1 (Individual Project)
Key Achievements:

- Implemented secure user authentication and registration system with session management
- Developed MVC architecture following clean code principles and design patterns
- Integrated VNPay payment gateway with transaction handling for data consistency
- Built comprehensive shopping cart functionality and order management system
- Applied database optimization techniques including indexing and query optimization
- Implemented comprehensive error handling and logging system

AWARDS & ACHIEVEMENTS

- **2021-2022:** 1st Place, "Promising Coder" – Faculty of IT, STU
- **2022-2023:** "Excellent Academic and Training Performance" - Good rating
- **2023-2024:** "Excellent Academic and Training Performance" - Good rating
- **Academic Focus:** Strong performance in Data Structures, Algorithms, Database Systems, and Software Engineering

ADDITIONAL STRENGTHS

Problem-Solving Approach: Logical thinking methodology, systematic debugging, and efficient algorithm implementation
Team Collaboration: Experience with Git workflows, code reviews, and Agile development practices
Learning Agility: Quick adaptation to new technologies and frameworks, self-directed learning through documentation
Code Quality: Clean code practices, proper documentation, and maintainable software architecture

INTERESTS

Badminton • Volleyball • Technical Reading • Open Source Contributions • Code hard, learn continuously, sleep well, and repeat