

# Thi Tuyet Nhung Huynh (Grace)

## Junior Data Engineer

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GitHub: [JGrace99/Fantasy-Fitness](https://github.com/JGrace99/Fantasy-Fitness)

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## TECHNICAL SKILLS

- **Programming & Databases:** C# (ASP.NET Core MVC 8), Java, Python, SQL (PostgreSQL), HTML5, and CSS3.
- **Data & Backend Tools:** Entity Framework Core 8, pgAdmin, Database Normalization, and Schema Design.
- **School Project Infrastructure:** Render.com (Web Hosting), Supabase (Cloud Database), and Local XAMPP environments.
- **Systems & Version Control:** Git Command Line, GitHub Desktop, and Linux Environment.
- **Testing & Quality Assurance:** XUnit (Unit Testing), and manual browser-based testing.
- **Course-Specific Concepts:** MVC Architecture, and Role-Based Authentication.

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## PROFESSIONAL EXPERIENCE

Data Mapping Specialist | Elinext (Software Outsourcing) | 2022 – 2024

- Engineered technical mapping solutions for international **SWIFT financial messaging protocols**, ensuring 100% accuracy for global banking transactions.
- Executed rigorous data validation logic to maintain integrity within high-security, high-volume financial environments.
- Optimized data transformation pipelines, significantly reducing processing latency for cross-border data flows.

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## KEY DATA PROJECTS

Fantasy Fitness | Data Lead

- **Relational Architecture:** Designed and implemented a robust relational database using PostgreSQL and EF Core, managing 12 migrations to support complex features like role-based identity, team collaboration, and social feeds.
- **Performance Optimization:** Achieved a 1.4s average load time for high-volume leaderboard queries by implementing eager loading and strategic database indexing.

- **Transactional Integrity:** Engineered backend services for automated streak tracking and point-based rewards, utilizing transaction scopes to prevent data corruption during multi-day completion calculations.
- **Cloud Deployment:** Orchestrated the system's transition to a live production environment on Render.com with Supabase PostgreSQL, managing environment variables and automated database seeding.

### VigilantPay | Data Architect | In Progress

- Architecting a distributed gateway using Java Spring Boot to process real-time transaction data (JSON).
- Implementing an asynchronous ingestion engine to decouple data entry from the security logic layer, ensuring 99.9% resilience under high load.

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## EDUCATION & CREDENTIALS

### Advanced Diploma in Computer Programming | George Brown Polytechnic | Expected 2026

- **Dean's Honor List:** Recognized for outstanding academic achievement.
- **Core Focus:** System Development Project (COMP 2154), Advanced Data Structures (COMP 2080).

### Certifications:

- **Azure Fundamentals (AZ-900)**
- **AWS Cloud Practitioner**

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## TECHNICAL PROFICIENCIES

- **System Design:** Expert in three-tier MVC architecture and the Repository Pattern for maintainable, testable code.
- **Data Tools:** Proficient in **pgAdmin** for schema design, query testing, and data inspection.
- **Collaboration:** Experienced in **Agile/Scrum** methodologies, utilizing GitHub for version control and issue tracking.