

# Shiva Ganesh Nagadan

Aspiring Full-Stack Engineer

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Johannesburg, South Africa

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## QUALIFICATION SUMMARY

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I am a Computing student specialising in Software Engineering with strong hands-on experience in full-stack web development, desktop applications, and database-driven systems. Proficient in C#, Java, JavaScript, and modern frameworks including React, Node.js, and Express. Demonstrated leadership through high-performing academic projects, including the top-ranked project in the cohort. Seeking international internship or graduate program opportunities in Europe and globally as well, where I can contribute, learn, and grow as a software engineer.

## KEY SKILLS

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- ✓ Languages: C# | Java | JavaScript | Python | PHP | Delphi
- ✓ Frontend: HTML5 | CSS3 | JavaScript | React | EJS
- ✓ Backend: ASP.NET Core | Node.js | Express.js | Spring Boot | RESTful APIs
- ✓ Security: JWT | Role-Based Access Control
- ✓ Databases: SQL Server | PostgreSQL | MySQL | MongoDB
- ✓ Tools: Git | Visual Studio | VS Code | IntelliJ IDEA | Apache NetBeans | Postman
- ✓ Concepts: Object-Oriented Programming | MVC Model | Exception Handling | Software Testing

## PROJECTS

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### Internship Management System

**Technologies:** C#, ASP.NET Core, SQL Server, Entity Framework Core, React

- Designed and developed a full-stack internship management platform supporting students, companies, and administrators.
- Implemented authentication and role-based access control for multiple user types.
- Built RESTful APIs enabling internship postings, student applications, and administrative approvals.
- Designed and normalized a relational database schema (Students, Internships, Applications, Companies, Admins) using SQL Server.

### Java E-Commerce Platform

**Technologies:** Java, Spring Boot, PostgreSQL

- Developed a Java-based e-commerce application featuring user authentication, product catalogue, shopping cart, and checkout logic.

- Implemented admin-level CRUD operations for product and inventory management.
- Integrated PostgreSQL with Spring Boot for persistent data storage.

## SQL Portfolio

**Technologies:** SQL Server, PostgreSQL

- Created multiple relational databases (LibraryDB, HRDB, SalesDB) to demonstrate advanced SQL skills.
- Wrote complex queries including joins, triggers, stored procedures, and reports.
- Documented database schemas and queries using Markdown for clarity and maintainability.

## Student Management System

**Technologies:** C#, Windows Forms, MySQL, Git

- Led development of a desktop application for managing student records with full CRUD functionality.
- Integrated a MySQL database and implemented comprehensive exception handling to ensure data integrity.
- Designed a logging mechanism that records all database changes to a text file for traceability.
- Achieved a final project score of 98%, the highest in the subject.

## LEADERSHIP EXPERIENCE

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### Project Lead – Student Management System

- Oversaw an 8-month team project developing a C# Windows Forms application.
- Ensured proper exception handling and resolved data-mapping issues between the UI and MySQL database.
- Mediated team conflicts and maintained productivity through clear communication.

### Co-Lead – AI-Assisted Generator Monitoring

- Co-lead a year-long industry-collaborative project focused on real-time generator monitoring and predictive maintenance.
- Organized meetings to track progress, resolve technical and interpersonal challenges.
- Contributed to system and security architecture design and took charge of data storage and visualisation.

## Education

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### Bachelor of Computing in Software Engineering

Belgium Campus University, Pretoria, South Africa

**Relevant Coursework:** Software Engineering, Database Development, Web Programming, Software Testing, Software Analysis & Design, Project Management, Linear Programming