

# Dipen Shrestha

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## Profile

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Motivated and detail-oriented recent Computer Engineering graduate from Khwopa Engineering College with a strong academic foundation and active volunteer experience. Possess a solid background in programming and design, enhanced by well-honed leadership and communication skills. Passionate about leveraging technical expertise to build a successful career in Professional Services, specializing in innovative programming and design solutions that drive success.

## Education

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**BE in Computer Engineering**

2019-2024

*Purbanchal University*

CGPA: 3.33

## Key Competencies

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Technical Skills      HTML/CSS | JavaScript | C# | MySQL | Git | Figma | .Net | ASP.NET Core | Dapper

Soft Skills              Communication | Analytical Thinking | Problem Solving | Leadership

## Work Experience

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### Channakya Software Private Limited | Dotnet Developer Internship

- Developed **RESTful APIs** using **ASP.NET Core**, with proper routing, model binding, and input validation using **Data Annotations**.
- Worked with **SQL Server** using **SSMS**, implementing the **Database-First approach**, writing **T-SQL**, **stored procedures**, and **functions** for optimized data access.
- Integrated **Dapper ORM** for data access, comparing performance and flexibility based on use cases.
- Learned about **JWT-based authentication and authorization**, including **role-based access control** for securing APIs.
- Utilized **Dependency Injection** throughout the application to promote clean architecture and modular design.
- Followed a **layered architecture** (Controller → Service → Repository) and used tools like **Swagger** for testing and documentation.
- Collaborated in an **Agile/Scrum** environment, attending stand-ups, sprint reviews, and participating in Git-based version control and code reviews.

## Projects

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### Stored Procedure-Based Customer Order Management API

- Developed a RESTful Web API using **ASP.NET Core**, implementing the **Repository Pattern** for modular and maintainable code.
- Built a **Customer Order Management System** for a **Bike Store**, managing customers, orders, staff, products, and inventory.
- Utilized **Dapper ORM** for high-performance database interaction and **SQL Server** for efficient data

storage and retrieval.

- Designed a **relational database schema**, including tables for Customers, Orders, Order Items, Products, Stores, and Staff.
- Implemented **Stored Procedures** and **Functions** for CRUD operations, ensuring optimized query execution and performance.
- Applied **TRY-CATCH blocks** for error handling and **SQL parameters** for secure query execution.
- Used **Swagger** for API documentation and testing, improving usability and accessibility.
- Followed **asynchronous programming** best practices using `async/await` to enhance API responsiveness.

### Dapper-Based Employee Management API

- Designed and implemented a RESTful Web API using **ASP.NET Core**, following the **Repository Pattern** for better maintainability.
- Developed an **Employee Management System** with CRUD operations using Dapper for high-performance database interaction. Designed a relational database with SQL Server (SSMS), consisting of three tables: Employee, Department, and Designation.
- Used Swagger for API documentation and testing, ensuring a well-documented API and Implemented **Data Annotations** for model validation and **TRY-CATCH blocks** for error handling.
- Applied the `[ApiController]` attribute for automatic model validation and followed **asynchronous programming** best practices with `async/await` for improved API performance.
- Also implemented all the API endpoints using **Stored Procedure** and **Functions**.

### ImaginFace: Text Driven Human Face Generation

- Created “ImaginFace” using DC-GAN and DF-GAN on CelebA Dataset which focuses on utilizing GANs to create a range of human faces through training, on extensive datasets of actual human faces.
- Applied Django Framework to create User Interface and deploy the model in it.

### Sathi Sahakari

- Created “Sathi Sahakari” using PHP, HTML/CSS, JavaScript and MySQL for database connection which is an application for maintaining a person's account in the cooperative.
- Integrated features such as money transactions, account detail views, profile creation, and editing functionalities, effectively showcasing CRUD operations.

### AnimeStore

- Developed a web application designed for anime enthusiasts, offering a wide range of anime products and related services using PHP, HTML/CSS, JavaScript, and MySQL for database connectivity.
- Focusing on featuring login portals for anime enthusiasts to offer specialized functionalities and services.

### Certification

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#### JavaScript Zero to One Workshop

- Organized by ITSNP
- 12<sup>th</sup> November - 13<sup>th</sup> December 2021

#### Web Development Workshop

- Organized by ITSNP
- 8<sup>th</sup> October - 20<sup>th</sup> October 2021