

# Anchal Lama

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## Introduction

I am passionate about exploring my ideas through code implementation to test the feasibility of small components of my concepts. This approach allows me to experiment and refine my ideas in the field of web development. My main goal is to ascertain whether technology can effectively translate my imaginative ideas into workable projects. In addition to confirming my theories, this technique helps provide significant discoveries and creative fixes.

## Education

**Bangabandhu Sheikh Mujibur Rahman Science & Technology University** Dec 2018 - Dec 2023  
*Bachelor in Computer Science & Engineering (CSE)*

- **Coursework:** Java, DSA, Database System Concepts, Computer Architecture, Digital logic & Design, Algorithms & Designing, Theory of Computing, AI/ML, Computer Graphic

## Experience

**Software Developer Intern** ManBhawan,Lalitpur  
*Percoid IT Solutions* June 2024 – Aug 2024

- Apply academic knowledge to a professional setting by contributing to real-world projects, enhancing both technical and practical skills
- Acquire hands-on experience in technologies such as .NET Core, Angular, and SignalR, building proficiency in modern full-stack development
- Work on the development of a functional Employee Management System, showcasing full-stack capabilities by managing both frontend and backend components
- Familiarize yourself with best practices in the software development lifecycle, including version control, project management, and team collaboration using tools like Git
- Face real-world challenges and refine problem-solving techniques by applying learned concepts to practical, hands-on tasks
- Gaining deeper insight into relational database design for large-scale applications, with a focus on structuring schemas and optimizing SQL queries to enhance query efficiency and overall performance

## Projects

**Library Management System** [github.com/name/repo](#) ↗

- To efficiently oversee library operations, I have developed a robust authentication and authorization system for a complete web application
- To ensure safe account setup, a new email verification step was added for new accounts. Users must confirm their registration by sending an email via SMTP
- Establish role-based access control so that general users have restricted access and administrators are the only ones with access to certain features, such as library management
- An Admin panel and User panel was created to perform all kind of crud operation
- Tools Used: Asp.net Core Web API 8, Angular Materials & Microsoft SQL Server

**Employees Management System** [github.com/name/repo](#) ↗

- The purpose of this web application is to give HR and administrative users the ability to manage employee details, such as their titles, images, and other pertinent data. Additionally, the application facilitates realtime SignalR messaging between admin and HR users
- Tools Used: Asp.NetCore Web API, Dapper, Microsoft.EntityFrameworkCore, SignalR, Angular, ngx-bootstrap, ngx-toaster & Microsoft SQL Server

## Mini-eCommerce MicroService Project

[github.com/name/repo ↗](https://github.com/name/repo)

- An eCommerce microservice architecture with an API Gateway includes independent services for handling specific business functions like products, orders, and user accounts. The API Gateway serves as a single entry point for managing client requests, routing them to appropriate microservices, and enforcing security policies. Rate limiting controls the number of requests a client can make to prevent abuse and ensure fair usage. Caching stores frequently accessed data to improve performance and reduce load on services. Retry strategies ensure reliability by automatically retrying failed requests due to transient errors. This setup enhances scalability, performance, and resilience for online shopping platforms
- Tools Used: Asp.NetCore Web Api 8 , Oclet & Microsoft SQL Server

## Technologies

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**Languages:** C++, C, Java, C#, SQL, JavaScript, TypeScript

**Technologies:** .NET, Microsoft SQL Server, Angularjs, Angular