# MANISH PANDEY

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## Education

**Lakshmi Narain College of Technology**  Sep. 2024 – Present
*Bachelor of Science in Computer Science*  *Bhopal, M.P.*

## Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Internet Technology
- Systems Programming
- Computer Architecture

## Projects

**YABS (Yet Another Blog Site)** | *Go, Echo, React, PostgreSQL, JWT, Goose* ⚙  Nov 2025
- Developed a **RESTful API** using the **Echo framework**, implementing custom **middleware** for request logging and **JWT-based authentication**.
- Managed database migrations by integrating **Goose** for **version-controlled schema migrations**, ensuring consistent environments across development and production.
- Implemented secure authentication using **bcrypt** and **JWT**, providing **stateless session management** and protected resource access.
- Architected a clean backend structure using a **repository pattern** to decouple business logic from **PostgreSQL** persistence layers.
- Optimized server reliability by implementing **graceful shutdowns** and structured **error handling**.

**UNOTES** | *React Native, Expo, AsyncStorage* ⚙  June 2025
- Developed a full-stack cross-platform mobile application using **React Native** and **Expo** to register and track expenses and transactions.
- Implemented **AsyncStorage** for low-latency, in-device data persistence, enabling offline access and fast data fetching for financial records.
- Designed a **modular UI architecture** with custom hooks and reusable components to manage complex state transitions and input validation.
- Enhanced user experience by integrating **native device features** and optimized rendering to maintain high performance during list scrolling and data filtering.

**ImBMI** | *C++, ImGui, GLFW, OpenGL* ⚙  March 2022
- Built a fast desktop app in **C++** using **Dear ImGui**, utilizing the **immediate mode GUI** layout to show health results instantly.
- Used **GLFW** and **OpenGL** to handle window management and graphics rendering, ensuring low CPU usage and cross-platform support.
- Applied **Object-Oriented Programming (OOP)** to keep the math logic separate from the visual parts, making the code much easier to read and maintain.
- Added dynamic UI scaling and custom styles to make the interface responsive and easy to navigate on different screen resolutions.

## Technical Skills

**Languages**: Go (Golang), C++, SQL (PostgreSQL), TypeScript, JavaScript, Python, HTML/CSS
**Technologies/Frameworks**: Echo, React, Next.js, React Native, Expo, Dear ImGui, GLFW, OpenGL, Goose, JWT, Git, GitHub, Linux, Tailwind CSS, AsyncStorage, bcrypt
**Concepts**: RESTful API Design, Middleware, Database Migrations, Repository Pattern, Stateless Authentication, Object-Oriented Programming (OOP), Cross-Platform Development