



Satyanshu Satyam

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LinkedIn Github

LeetCode: leetcode-profile | 200+ problems solved

GeeksforGeeks: gfg-profile | 200+ DSA problems solved in C++

Profile Summary

A **Full-Stack Developer** with expertise in the **MERN stack** (MongoDB, Express.js, React, Node.js), specializing in building and integrating **scalable backend system** with dynamic **front-end interface**. Proven ability in architecting robust **Restful APIs**, managing database solution with **MongoDB**, and implementing server-side logic using **Node.js**. Combines a strong focus on **responsive design** and **clean code** with a collaborative approach to development, consistently delivering high-quality, performant web applications.

Education

Heritage Institute of Technology, Kolkata, India
Bachelor of Technology in CSE, GPA : 7.0

Jun 2022 – Present

Chauhan Public School, Bhagalpur, Bihar
Higher Secondary (PCM), Percentage: 71.4

Jun 2020 – Aug 2022

Experience

CipherByte Technologies, Remote
Web Development Intern (Internship)

Jul 2024 – Aug 2024

- Engineered a responsive **weather dashboard application** using **React** and **Tailwind CSS**, integrating multiple **RESTful APIs** (OpenWeatherMap) to visualize real-time weather data, 5-day forecasts, air quality indices, and interactive maps via **Leaflet.js**.
- Enhanced user experience by implementing dynamic data rendering and location-based search, successfully processing and displaying complex API data structures.
- Optimized application performance and development workflow by leveraging modern tooling such as **Vite** for fast builds and **Luxon** for precise date/time manipulation.
- Tech:** React, Tailwind CSS, OpenWeatherMap API, Leaflet, Luxon, Vite.
- Links:** Source code, Project Demo

Projects

Email Alerts on WhatsApp (*Node.js, IMAP, Twilio WhatsApp API, dotenv*)

- Engineered a **Node.js automation service** that connects to email accounts via **IMAP** to fetch and parse unread messages in real-time.
- Integrated the **Twilio API** to seamlessly relay structured email summaries (sender, subject, date) as instant alerts to **WhatsApp**, enabling users to receive critical notifications without delay.
- Architected a **secure configuration** using environment variables and implemented support for on-demand WhatsApp commands, demonstrating end-to-end backend system design and API integration expertise.
- Links:** Source code, Project Demo

Imgfly (*React, Express, Supabase (PostgreSQL), Cloudinary, Tailwind CSS.*)

- Designed and developed a full-stack Pinterest-style image sharing platform (**Imgfly**) using the MERN stack with TypeScript, Supabase (PostgreSQL), and Cloudinary for image management.
- Engineered key features including JWT authentication, image uploads, infinite scroll, a responsive masonry grid layout, and real-time user interactions (like, save, follow) by building a robust **RESTful API** with **Express.js** and **Node.js**.
- Implemented robust database security via **Supabase Row Level Security (RLS)** policies and optimized performance through efficient state management, pagination, and modern React patterns, delivering a scalable and secure application.
- Links:** Source code, Project Demo

Cricket Alert Telegram Bot (*Python, SQLite, python-telegram-bot, CricAPI, aiohttp.*)

- **Engineered a real-time Telegram bot** using Python and the **python-telegram-bot** library to fetch and distribute live cricket scores and milestone alerts via the CricAPI, serving updates to users every 15 minutes.
- **Architected a subscription system** with an SQLite database to manage user preferences and prevent duplicate notifications, allowing users to subscribe/unsubscribe to specific matches for personalized alerts.
- **Implemented robust backend mechanisms** including **API rate-limiting**, intelligent match filtering to prioritize international games, and single-instance enforcement to ensure system stability and data integrity.

Advanced To-Do App (*React, Vite, Tailwind CSS, Material-UI, OpenWeatherMap API*)

- **Engineered a feature-rich, responsive task management application** using **React** and **Redux Toolkit** for state management, featuring drag-and-drop reordering, due dates, priority levels, and weather integration via the **OpenWeather API**.
- **Designed a modern UI** with **Tailwind CSS** and **Material-UI (MUI)**, implementing a dark/light mode toggle and a fully
- **Architected seamless data persistence** by integrating the application's state with browser **localStorage**, ensuring critical user data is retained for reliable offline access and a seamless experience between sessions.
- **Links:** Source code, Project Demo

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, C, C++, SQL

Frontend Development: React, Next.js, HTML5, CSS3, Tailwind CSS, Redux Toolkit, Context API

Backend Development: Node.js, Express.js, RESTful API Development, Server-Side Rendering (SSR), Authentication (JWT)

Databases & ORMs: MongoDB, PostgreSQL, SQLite, Prisma, Mongoose, Database Design & Normalization

Cloud & DevOps: AWS (EC2, S3, Lambda), Vercel, Docker, CI/CD Pipelines, Git, GitHub Actions

Developer Tools: Git, npm/yarn, VS Code, Postman, Chrome DevTools, Linux/Unix Command Line

Soft Skills: Problem-Solving, Cross-Functional Team Collaboration, Technical Leadership, Communication, Project Ownership

Certifications

• **Udemy: Web Development Certification**

Certificate

Certified in modern full-stack web development, demonstrating proficiency in industry-standard technologies through comprehensive coursework and hands-on project execution.

• **Frontend Developer (React))**

Certificate

Validated expertise in building dynamic and responsive user interfaces using the React library and its core principles.

• **SQL (Basic)**

Certificate

Earned certification by successfully solving foundational database challenges, demonstrating core skills in writing and executing SQL queries.

• **Python Programming**

Certificate

Completed a rigorous course mastering fundamental Python programming, including data structures, file I/O operations, and data processing techniques.

• **Introduction to Programming with MATLAB**

Certificate

Acquired foundational skills in algorithm development, data analysis, and scientific problem-solving using MATLAB.