

PRATYUT

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Education

BML Munjal University, Gurgaon

November 2021 – September 2025

Bachelor of Technology in Computer Science And Engineering

Current CGPA: 7.44/10

Relevant Coursework

- Attack and Defence
- Data Structures
- Computer Networks
- Database Management
- Security Audit
- OOP using C++
- Blockchain
- Operating System

Experience

BML Munjal University

July 2023 – July 2024

Software Developer

Kapriwas, Haryana

- Spearheaded the development of a comprehensive database management system using **Embedded Javascript** as front-end, **Node** with **Express** as back-end and **MongoDB for session management** as well as user data storage, ensuring efficient storage and maintenance of legacy and restructured communication flow among 11 departments cutting down paperwork by 28%.
- Designed and implemented a **streamlined solution** for event report creation and submission using **flutter** as front-end, **Node.js** and **Express.js** as back-end technology **MongoDB user data storage** and **JWT for authorization** , achieving a 95% reduction in report generation time and a 75% decrease in data collection time.
- Collaborated with cross-functional teams to gather requirements, troubleshoot issues, and enhanced system functionality by 10%, contributing to overall institutional efficiency.

Arcdata

December 2023 – January 2024

Web Developer

Remote

- Spearheaded the development of a static web-page for Arcdata using **Agile Software Development Life Cycle** resulting in 40% faster development and 100% of user satisfaction, a data collection and AI startup, serving as the primary online presence for the company.
- Utilized technologies including **HTML, CSS, SCSS, and JavaScript** to create a visually appealing site with hybrid scrolling functionality, enhancing user experience, resulting in a 47% increase in user engagement and significantly improving the company's online reach.

BML Munjal University

December 2022 – March 2023

Full Stack Developer

Kapriwas, Haryana

- Collaborated with the Internal Quality Assurance Cell (IQAC) to spearhead develop a **full-stack webpage** that **streamlined database management and indexing**, reducing file search and manual upload time by 86%.
- Implemented data quality assurance measures, leading to a 60% reduction in workload while ensuring high standards of data integrity by identifying discrepancies and proposing effective solutions.
- Fostered a **positive team environment**, motivating colleagues and contributing to the successful achievement of a **NAAC Grade A for the university**.

Projects

Blockchain | Python

Github

- Developed a fully **decentralized blockchain** implementation for cryptocurrencies from scratch, utilizing the **latest cryptography protocols**.
- Employed **peer-to-peer technology** and networks to enhance communication efficiency, achieving a 4% improvement in mining time through **multi-threading on the CPU**.
- Developed applied robust error handling mechanisms, enabling automatic transitions.

Invisible Image Watermarking | NODE.JS, HTML, CSS, EJS, PYTHON, JAVASCRIPT

Github

- Developed a full-stack web-page using **Node.js, Express.js, HTML, CSS, EJS, Python, and JavaScript** to implement spatial and DCT watermarking for videos and images.
- Used **system commands** for execution of **Python scripts** for LSB and DCT watermarking through JavaScript, achieving a 67% increase in code efficiency and a 27% reduction in embedding time with automated client-side updates.
- Integrated protective measures against common state-of-the-art attacks increasing watermark integrity by 30% using a unique methodology devised during the project.

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, Embedded C, Rust, GoLang, Dart, Bash

Developer Tools: VS Code, Excel, Android Studio, Git, VMWare, AWS, Azure, MongoDB, Postman

Technologies/Frameworks: Linux, Jenkins, GitHub, Flutter, Matplotlib, Seaborn, Numpy, Pandas, React, Express, puppeteer, FFmpeg, OpenCV, Nmap, Metasploit