

MUNJAM NAVADEEP

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EDUCATION

Indian Institute of Technology, Bhilai 2022 – Present
B.Tech - Computer Science and Engineering Bhilai, Chattisgarh

PROJECTS

Full Stack Blog Platform [↗](#) | [React](#), [NextJS](#), [Database - Postgress](#) Jan 2025 - Feb 2025

- Designed a relational database schema with PostgreSQL and Prisma ORM, modeling 5+ user relationships and storing 1,000+ posts efficiently.
- Implemented secure authentication using Clerk, supporting 2 OAuth providers and email/password authentication, ensuring 100% security compliance.
- Designed database schema with PostgreSQL and Prisma ORM, modeling user relationships and posts.
- Built 4 CRUD operations (Create, Read, Update, Delete) for blog posts, implementing role-based authorization checks with 99.9% accuracy
- Deployed on Vercel with CI/CD automation, reducing manual deployment time by 70%.
- Technologies Used: Next.js 14, TypeScript, Tailwind CSS, Prisma, PostgreSQL, Clerk, Vercel ,CI/CD for automation .

Terminal Shell Development [↗](#) | [C](#), [Unix System Programming](#), [Make](#) June 2024 - July 2024

- Developed a **custom Linux shell** with core command execution capabilities using `fork/exec` system calls.
- Implemented **15+ standard commands** including `ls`, `cp`, `mv` with proper error handling and user feedback.
- Added **custom features** like `gexit` for graceful exit and command history tracking.
- Optimized performance through **memory management** and modular code design with `.h/.c` files.
- Implemented **build automation** using Makefile with compilation flags and clean targets.

Mini GO Compiler [↗](#) | [C](#), [Flex](#), [Bison](#), [Compiler Design](#) Dec 2023 - April 2024

- Developed a **compiler** for a subset of GO language with syntax analysis and semantic checking capabilities.
- Implemented **symbol table management** for both global and local variables with operator overloading resolution.
- Supported **function recursion** with visual parse tree and Abstract Syntax Tree (AST) generation.
- Built robust error-handling with compile-time error recovery, detecting and reporting **syntax/semantic** issues with 95% accuracy.
- Achieved 5% parsing failure rate on valid Go subset programs through rigorous grammar refinement.
- Utilized compiler construction tools including **Flex** for lexical analysis and **Bison** for parsing.

TECHNICAL SKILLS

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

Markup/Styling: HTML, CSS, Tailwind CSS

Developer Tools: Git, GitHub, Docker, Kubernetes, Postman, VS Code

Frameworks: Next.js, React, Express

Cloud/Databases: MongoDB, Mongoose

Data Analysis & Visualization: NumPy, Pandas, Seaborn, Matplotlib

Coursework: Web Development, Data Structures and Algorithms, Operating Systems, Compiler Design, Machine Learning, NLP

Areas of Interest: DevOps, Web Development, ML

ACHIVEMENTS

1st place **Code Cursade Hackathon** among 24 teams organized by the Coding Club at IIT Bhilai.2024

EXTRACURRICULAR

- 3KM Marathon Champion:** Won 3rd place out of 18 in 2021 Intra-College Competition (Timing: 10:47)
- DesignX Member** (2023-2024): Designed 3+ institutional event posters using Figma and Adobe Suite with 60+ impressions