Devansh Tyagi

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EDUCATION

Bharati Vidyapeeth's College of Engineering   New Delhi
Bachelor of Technology in Computer Science and Engineering   *Nov. 2022 – June 2026*

EXPERIENCE

NodeJS Intern   July 2024 – January 2025
Aryago Transpotech Private Limited   *Remote*

- Implemented cab booking functionalities, including driver allocation, payment processing, and invoicing.
- Collaborated in a team handling a codebase with Express.js, Laravel and Next.js as well as WebSockets, Firebase, Razorpay and AWS S3
- Fixed critical bugs and enhanced system reliability.
- Developed the web booking interface using Next.js.

Web Development Trainee   Feb. 2024 - March 2024
Acmegrade   *Remote*

- Learned web development fundamentals
- Developed a full stack web app using HTML, CSS, PHP, JavaScript, and jQuery
- Managed relational databases in SQL using XAMPP and CLI

PROJECTS

Bytecode Interpreter/Language Implementation | *C*

- Developed a stack-based virtual machine and bytecode interpreter for my custom language PogBerry
- Based on the Pratt Parsing technique from the book Crafting Interpreters
- A procedural language implementation written exclusively in C, no dependencies

Ally | *Typescript, Next.js, Prisma, Supabase, PostgreSQL, Tailwind, ReCharts, Clerk*

- Developed a personal productivity companion for time tracking and habit improvement
- Implemented task tracking with timers, Pomodoro technique, and goal-setting
- Designed interactive charts to visualize focus trends and peak productivity hours and streaks
- Integrated background music and journaling features for a seamless productivity experience

Unbeatable Connect 4 Algorithm | *C++, React, Sockets*

- Developed a minimax-based decision-making solver with pruning for Connect 4 using C++
- Created a React front-end for user interaction
- Utilized sockets for real-time communication between AI and front-end

Discord Clone | *Typescript, Next.js, Prisma, Supabase, PostgreSQL, Tailwind, Socket.io*

- Developed a full-stack clone of the popular social media service Discord
- Implemented real-time video call and texting functionality
- Handled authentication using Clerk and used ShadCN for UI elements

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C, C++, PHP, SQL, Java, HTML/CSS
Frameworks: Next.js, Flask, Express, FastAPI
Libraries: React, SFML, Raylib, ShadCN