

DEVANSH TYAGI

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EDUCATION

Bharati Vidyapeeth's College of Engineering

B.Tech in Computer Science and Engineering (CGPA: 9.02/10)

New Delhi, India

Nov. 2022 – June 2026

EXPERIENCE

Technology Intern

Apr 2025 – Present

Travel Lykke Pvt. Ltd. (Remote)

- Resolved critical bugs and built features on a Django-based admin portal, improving usability for non-technical staff.
- Closed 40+ Jira tickets by developing APIs, writing integration logic, and deploying updates.
- Integrated third-party APIs and wrapped complex data contracts to standardize data flow.
- Working on the frontend development for a new customer-facing site using NextJS.

Node.js Intern

Jul 2024 – Jan 2025

Aryago Transpotech Pvt. Ltd. (Remote)

- Implemented dynamic cab booking flows with driver allocation, fare calculation, and invoicing.
- Worked across Express.js, Laravel, and Next.js codebases; built robust integrations with Firebase, Razorpay, and AWS S3.
- Fixed system-breaking bugs and optimized real-time booking reliability using WebSockets.
- Helped develop a web-based booking portal using Next.js.

PROJECTS

Bytecode VM and Language Implementation (PogBerry)

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- Built a stack-based bytecode interpreter from scratch for my custom language PogBerry.
- Used Pratt parsing (*Crafting Interpreters*) to implement expression parsing.
- No external dependencies; designed as a learning-first procedural language.

Barebones Operating System

Rust

- Developed a minimal operating system kernel in Rust, emulated using QEMU.
- Implemented paging, interrupt handling, and a basic heap allocator.
- Followed low-level systems programming practices from *Writing an OS in Rust* by Philipp Oppermann.

Real-Time Machine Learning Demo: Self-Driving AI

JavaScript, HTML

- Built an interactive simulation showcasing evolving neural networks controlling cars on a road.
- Visualized neuron activations live while networks trained to avoid traffic.
- Supports manual or automated training, and importing pretrained models.

Ally: Focus & Productivity Tracker

Next.js, TypeScript, Supabase, Prisma

- Built a cross-tab productivity app supporting Pomodoro, stopwatch, and task-based timers with persistent tracking.
- Designed daily goal streaks, focus trends, and time visualizations with filters (week, month, custom range).
- Added tab-title timer updates, real-time timer sync across tabs, and a notification badge for active sessions.
- Included journaling, to-do list with priorities, and time-of-day productivity analysis.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C, C++, PHP, Rust, SQL, Java, HTML/CSS

Frameworks: Next.js, Flask, Express.js, FastAPI, Django

Libraries: React, SFML, Raylib, ReCharts, ShadCN, Socket.io

Tools: Git, Docker, Firebase, Supabase, PostgreSQL, AWS S3, Jira, VSCode