

Shubham Jha

— GitHub — LinkedIn — LeetCode

Education: B.E. in Information Technology, Vivekanand Education Society's Institute of Technology (2022–Present), CGPA: 9.35 / 10



Experience

Software Development Engineer Intern

AudioPod AI — Remote

Feb 2025 – Mar 2025

React.js, Python, TypeScript

- Built functional UI components using **React**.
- Contributed backend features in **Python**, including error notification systems.

Projects

Portfolio Website | *React, TypeScript, Tailwind, Radix UI, Node.js, HTML5 Canvas, Vercel*

Live, GitHub

- Engineered a high-performance **HTML5 Canvas starfield and constellation renderer** using vector physics and a custom **useStarField** hook, optimized for mobile memory usage and frame stability.
- Designed a **custom useDrag hook** with threshold-based intent detection to strictly separate drag vs click semantics, resolving pointer-event conflicts with Radix UI's controlled **DropdownMenu**.
- Architected interaction state to **decouple gesture intent from component visibility**, preserving Radix lifecycle guarantees while enabling draggable, thumb-reachable UI on mobile.
- Deployed **serverless middleware on Vercel** to aggregate GitHub and DSA metrics, implementing response caching and secure token handling to mitigate external API rate limits.
- Implemented an accessible **contact and notification pipeline** using Radix Forms, native **FormData**, Nodemailer, and toast-based UX feedback.

Open Brain | *Full Stack Link Storage App — React, TypeScript, Node.js, Express, MongoDB, JWT*

GitHub

- Designed and developed a full-stack notes and link management platform with semantic search.
- Built a **custom UI component library** for consistent, scalable frontend architecture.
- Implemented **secure JWT-based authentication** and fine-grained public/private access control.
- Integrated **vector search** for contextual document retrieval.

NetBank Wallet Application | *React, Node.js, Express, MongoDB, Tailwind*

GitHub

- Developed a peer-to-peer wallet simulation with secure authentication and transactional balance updates.
- Designed RESTful APIs with validation, modularization, and balance consistency guarantees.

Micrograd Engine | *Python, OOP, Neural Networks*

GitHub

- Reimplemented a minimal autograd engine to understand computation graphs and backpropagation.
- Built a neural network with manually implemented forward and backward passes.

Technical Skills

Languages: Java, JavaScript, Python, TypeScript, SQL

Frameworks: React, Next.js, Node.js, Express, Tailwind

Databases: MongoDB, PostgreSQL

Leadership / Extracurricular

CSI, VESIT — Operations Officer

Nov 2023 – May 2025

- Conducted DSA mentorship sessions for 100+ juniors.
- Secured Garnier as a sponsor through corporate outreach.

Achievements

Competitive Programming: Codeforces 1200+, LeetCode 1840+, 900+ problems solved.

Mock Placements: Winner – Campus to Corporate (ISTE VESIT).

Contests: 2nd Runner-Up in Coding Ninjas DSA Contest (150+ participants).

Ideathon: 1st place, AI Council College Ideathon.