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PROFILE SUMMARY

Passionate software developer with experience in full-stack development, open source contributions(p5.js, GSSoC, asyn-capi), and deployment operations. Strong problem-solving skills with experience in competitive programming. Having experience working with cross-functional teams to deliver scalable solutions.

EDUCATION

Bachelor of Technology in Computer Science & Engineering

Oriental Institute of Science & Technology, Bhopal

Expected May 2026

Senior Secondary Science & Mathematics

Macro Vision Academy, Burhanpur

Graduated in May 2022

HOBBIES

Reading Tech related articles. Exploring various utility tools such as `wc`, JSON parsers, Compilers etc.

SYSTEM DESIGN

- **URL Shortener:** Designed scalable service with hashing, database indexing, and cache for high QPS.
- **Chat Application:** Architected real-time messaging with WebSockets, load balancers, and horizontal scaling.
- **Payment Gateway:** Created secure transaction flow using microservices, message queues, and database sharding.
- **Distributed Cache:** Built design with consistent hashing, replication, and fault tolerance.

TECHNICAL ACHIEVEMENTS

- GirlScript Summer of Code (GSSoC) Finalist 2024 - Contributed to open source projects.
- Achieved 1600+ rating on LeetCode.
- 1200 rating on CodeForces.
- Designed and deployed scalable applications using Kubernetes and Docker.

EXPERIENCE

GSSoC Contributor

May 2024 - October 2024

- Contributed code, documentation, and improvements to multiple open source repositories.
- Engaged in collaborative software development with the global community.

Software Engineer Fellow, Headstarter

Aug. 2024 - Oct. 2024

- Developed simple projects.

Open Source Maintainer & Competitive Programmer, DEBUG (OIST)

July 2024

- Led GitHub repository management and technical contributions.
- Led the community peers for ICPC.
- Conducted technical interviews and on-boarding sessions for new members.

PROJECTS

- **Full-Stack Blogging Platform (React, Node.js, PostgreSQL):** Deployed an end-to-end blogging platform featuring user authentication, CRUD operations, and Postgres-backed data handling. Hosted via Vercel, implements responsive UI and RESTful APIs.
- **P2P Video Call Application (WebRTC):** Built a peer-to-peer video calling app using WebRTC with custom ID-based room setup. Designed lightweight frontend and backend signaling service.
- **Interactive Drawing App (MonoRepo):** Created a real-time collaborative canvas inspired by Excalidraw. Users can draw, erase, and save shapes—showcases familiarity with React state, event handling, and SVG/canvas APIs.
- **Discord Verification Bot (Python):** Developed a bot using Discord API to verify users before granting server access. Utilized Python, environment variables, and automated role management.
- **Linked Automation Bot (JaVaScript, Selenium):** Automated cross-platform content posting between LinkedIn and X (formerly Twitter). Built with Selenium and dotenv configuration for credential safety.
- **Light Projects & Demos:** (Optional one-liner) Includes Payment-Merchant wallet demo, scalable automation workflows, and a web app for club activities—all served as exploratory builds for concept validation.

CERTIFICATIONS

- CCNA M1, M2, M3
- CyberOps Associate
- Switching, Routing & Wireless
- Python Essentials 1 & 2
- Networking Essentials
- Network Technician Path
- Intro to Cybersecurity
- Junior Cyber Analyst Path

TECHNICAL SKILLS

- **Languages:** C++, SQL, JavaScript, TypeScript, Lua, Rust, Solidity, GoLang.
- **Tech Stacks:** ReactJS, Node.js, Next.JS, Prisma, Redux, Tailwind CSS, Foundry, MonoRepo
- **Tools:** Git, Docker, CI/CD, Kubernetes, Bash/ZSH/fish, Lazy Git.
- **Databases:** PostgreSQL, MongoDB, NeonDB.
- **Cloud:** AWS, Vercel.