

VIBHOR SHUKLA

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Education:

| | | | |
|------------------------|---------------------------------------|------|----------------------------------|
| Bachelor of Technology | Computer Science & Engineering, NITRR | 2027 | 8.40/10(CPI 4 th Sem) |
| Higher Secondary Ed. | CBSE, KPSI, Naya Raipur, C.G. | 2022 | 92.9/100 |
| High School | CBSE, KPSI, Naya Raipur, C.G. | 2020 | 95/100 |

TECHNICAL & SOFT SKILLS

Programming Languages: C++, Java, TypeScript, JavaScript, Python, Rust (basic)

Technologies: Linux, Automation, Nest.js, Express.js, Node.js, React.js, Docker, SSH, SSMS, SQL, Redis, Postgres, MongoDB.

Tools: VIM, Bash, VS Code, NEOVIM.

DSA & CP:

LeetCode: Solved **400+** problems, Peak Rating of **1575**

CodeChef : Peak rating of **1491**

CodeForces: Peak Rating **1099**

Relevant Coursework:

OOPS (JAVA & C++), Operating Systems, Computer Networks, Computer Fundamentals, Digital and Logical Design, Compiler Design, Computer System Architecture, Discrete Mathematics, Theory of Computation, Mathematics.

Soft Skills: Leadership, Communication Skills, Team Work, Public Management, Punctuality.

Work Experience

- **GeeksForGeeks:** DSA and Summer Camp [<Certificate>](#) **(22 weeks+Summer’25)**

- **AAVARTAN- Technocracy:** **Backend Engineer** [<Certificate>](#)

Job: Designing and maintenance of the official site’s **server** with around **3000+ visitors.** [<link>](#)

Duration: Jul 2024-Feb 2025 **(8 months)**

Leadership & Community Involvement

- **Lead Teams to Hack-a-thons:** [<link>](#)

- **Winner of 30-DAYS-of-CODE:** [<link>](#)

- **Class Representative (CR):** Groomed my **leadership** and **public management skills.**

- **Volunteered in Technocracy Club – NITRR:** To host Central India’s Biggest Tech-Fest: AAVARTAN 2023-24 Learned Team Work & coordination.

Extra-curricular:

- 1900+ chess rating on lichess.org
- Reading, Fitness, Debates, Finance, Robotics
- Poetry (HINDI, ENGLISH)

Projects

• **Smriti** [<link>](#)

Domain: AI/ML, Web Development, Healthcare

Tech used: **React.js, TypeScript, Python, MongoDB, SQLite, Dlib, Gemini AI**

Description: AI-powered web app to assist Alzheimer's and dementia patients. Features facial recognition for identifying people, memory journals, event reminders, guardian tracking maps, and an empathetic chatbot for emotional support.

• **Sahayak** [<link>](#)

Domain: AI/ML, Web Development, Blockchain

Tech used: **TypeScript, Python, Solidity, React.js, AWS, MongoDB**

Description: Hackathon project for automated certificate/document validation. Uses **R-CNN**-based **EasyOCR** to extract data at generation time and stores results on the Ethereum blockchain for tamper-proof verification.

• **Yukti** [<link>](#)

Domain: Compiler Design, Virtual Machine

Tech used: **Python (Regex, Recursive Descent Parsing, AST, Code Generation, Interpretation)**

Description: Simulates a C-like compiler pipeline that detects $x*x*x + x*y$ and replaces it with a custom instruction CUBEMULADD. Implements tokenization, parsing, code generation, and interpretation on a virtual CPU with .asm output.

• **Accession** [<link>](#)

Domain: WEB DEVELOPMENT, OPEN SOURCE

Tech used: **TypeScript, NestJS, MongoDB, Turborepo, Docker, Redis**

Description: A centralized platform to efficiently manage club and committee members in colleges, streamlining data organization and coordination across extra-curricular groups.

• **Friday** [<link>](#)

Domain: Python Automation

Tech used: **Python**

Description: A hands free, speech-based desktop assistant, built as a fun project (on Friday)

• **Aircraft Detection & Classification** [<link>](#)

Domain: AUTOMATION, Hardware,

Tech used: **PYTHON, YOLOv8, RaspberryPI5, Linux**

Description: Detects Enemy Aircrafts and gives a range of their location. Can be used in Military.