

Yuvraj Singh

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EDUCATION

VIT Bhopal University, Bachelors of Technology in Computer Science Engineering

- Current GPA is **9.18**

Oct 2022 – present | Bhopal, M.P., India

St. Lawrance Public School, High School and Intermediate

- Intermediate % is **93.6**
- High School % is **94.6**

Mar 2021 | Farrukhabad, U.P., India

Mar 2019 | Farrukhabad, U.P., India

TECHNICAL SKILLS

Languages

JavaScript, C/C++, Python, Java

Technologies/Frameworks/Libraries

Next JS, React JS, Node JS, MongoDB, Express JS, Tailwind CSS, HTML, CSS, Machine Learning, Git, APIs, DSA

EXPERIENCE

Founder, Esports Organization, [Team Leadership | Event Management | Sponsorships | Business Development] Mar 2020 – Sep 2023

- Led a team of **30+ staff members** (100+ total) and scaled a Discord community to **10,000+ daily visitors** with **85,000+ total users**, creating a **competitive esports platform** for practice matches and tournaments.
- Successfully hosted multiple tournaments with **US & Indian sponsors**, generating **₹12–13 lakh in profits**, while honing skills in leadership, negotiation, and **stakeholder management**.

Industry Experiential Learning, [IoT & Embedded Systems | Metro Infrastructure | Cybersecurity | Prototyping] Sep 2024 – Oct 2024

- Visited **6+ industry-leading organizations**, including **BSNL RTTC, L&T Metro, T-Works, and Arete Incident Response Office**, gaining hands-on insights into **IoT (ESP32 microcontrollers)**, rapid prototyping and 3D printing. Explored **metro rail automation** systems and attended **startup mentorship sessions** by industry leaders.

PROJECTS

Turning Trash to Treasure – Garbage Detection ML Model, [OpenCV, CNN, Image Processing] Sep 2023 – Jan 2024

- Developed an AI-powered garbage detection system that automated worker allocation when waste exceeded predefined thresholds, improving efficiency in waste management.
- Trained a Machine Learning model on 2,700+ images, achieving **89% precision, 78% accuracy, and a 0.74 F1-score**, using a **30-epoch training pipeline** with advanced learning rate scheduling for improved detection reliability.

Mail Scheduler, [Next JS, React.JS, Tailwind CSS, JavaScript]

Jan 2025 – present

- Built a **mail scheduling feature** in Next.js, improving email automation efficiency by **70%** and achieving **95% scheduling accuracy** through optimized database queries and API integrations. Designed a **responsive UI** with Tailwind CSS, incorporating debouncing mechanisms for a seamless scheduling experience.

Seva Sathi - On-Demand Service Marketplace, [React.JS, Express.JS, MongoDB, NodeJS, Tailwind CSS]

ongoing

- Developing a platform connecting **100+ electricians, plumbers, and carpenters**, reducing service wait times by **70%** through real-time availability and instant job assignments.
- Implementing a **job dispatch system** where workers receive requests within **5 seconds** and can accept them in real time. Features include **live tracking, secure payments, and a dual rating system**, improving service reliability by **40%**. Optimizing the **matching algorithm and scalability** to support **10,000+ job requests per month**.

ACHIEVEMENTS

- **Runner-Up at CodeX – Web Development Hackathon** by **Cisco Community, VIT Bhopal** ☑
- **Runner-Up at Aarohan – Business Idea Pitching Competition**, judged by **Rakhi Pal (Co-founder, EventBeep)** ☑
- Solved **500+ Data Structures and Algorithms** problems on [LeetCode](#) ☑ and [GeeksForGeeks](#) ☑ .

CERTIFICATIONS

- NPTEL **Top 1%** in Cloud Computing ☑
- Google's The Bits and Bytes of Computer Networking ☑
- TCS CodeVita Season 12 **"Round 2"** ☑
- Flipkart Grid 6.0 Hackathon Participation ☑