

Chitranshu Nagora

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Education

Jaipur Engineering College and Research Centre (JECRC) University **Jaipur, IN**
Bachelor of Technology in Computer Science Engineering, CGPA – 7.89 2020 - 2024

Professional Experience

Indian Space Research Organization (ISRO) **Ahmedabad, IN**
Research Intern Mar 2024 – Jun 2024

- Developed a GSM-based telephony system using open-source software (OpenBTS), USRP and satellite infrastructure for disaster management scenarios.
- Successfully addressed Doppler shift and signal delay issues through In-phase Quadrature (I/Q) modification, reducing frequency shift by **90%**.
- Utilized Python-based module GPredict for Doppler prediction and implemented the I/Q complex multiplication using C++.

Atlanture Sports Pvt Ltd **Jaipur, IN**
Full Stack Web Developer Mar 2023 – Aug 2023

- Enhanced and optimized the backend infrastructure culminating in an impressive **40%** reduction in website loading times. Achieved a daily visitor count of over **4,000**.
- Analyzed Google Search Console to assess indexing status, monitor search queries, rectify crawling errors, and boost website visibility by an impressive **70%**.
- Revitalized the registration page's user interface, resulting in a **12%** decrease in inquiries while simultaneously enhancing the overall user experience and supporting customer service efforts.

JU Makerspace **Jaipur, IN**
President Sept 2022 – Mar 2024

- Proficiently Coordinated and trained a team of **90** members in the fabrication, management, operation, and prototyping of diverse hardware projects.
- Engineered a Python-based Flight Controller Algorithm, leading to an outstanding **65%** reduction in drone manufacturing costs.
- Designed and fabricated an in-house 3D printer utilizing open-source Marlin firmware, achieving a **45%** reduction in overall production costs.

1Gift **Jaipur, IN**
Co-founder and CTO Jun 2021 – Mar 2022

- Conceptualized the Minimum Viable Product (MVP) website for the startup's initial launch.
- Deployed Google Analytics, leading to a **30%** increase in customer reach and a **18%** boost in overall revenue.
- Streamlined backend solution that significantly enhanced overall security, resulting in a remarkable **45%** performance improvement in Static Application Security Testing (SAST).

Projects

Khel Karate League Website | Django, HTML, CSS, JavaScript, OAuth, API Integration

- Developed a comprehensive website for a National-level Karate League, incorporating registration, online payment gateway, and live streaming features.
- Spearheaded an end-to-end online onboarding process for the players, eliminating paper forms and reducing onboarding time by **90%**.

Autonomous Surveillance Robot | Python, OpenCV, Arduino, System Programming, Operating System

- Architected an advanced security bot for the Ministry of Defense and the Indian Army, significantly expanding area coverage by up to **70%**.
- Researched and integrated Radio Wave Communication into the bot for seamless audio, video, and sensor data transmission, eliminating latency by **95%**.

Skills

Technical - Web Development, Python, MongoDB, Django, Java Script, HEX Programming

Software and Tools - Git, GitHub, Digital Ocean, Figma, VS Code

Achievements

- Recipient of the Smart India Hackathon Winner title, **two** times.
- Conceived a grant of INR **1 Lakh** to fund the development of an advanced surveillance and monitoring bot for the Indian Army.
- Initiated and organized Rajasthan's inaugural Maker's Carnival, attracting participation from over 4,000 students from colleges across the state.
- Orchestrated a comprehensive web development workshop, captivating and educating a crowd of **200+** web enthusiasts, equipping them with practical knowledge to excel in the field.