

SWAR CHURI

Mumbai, Maharashtra

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Education

Mumbai University – Fr. Conceicao Rodrigues College of Engineering

Sep. 2024 – Present

Bachelor of Technology in Computer Engineering

Mumbai, Maharashtra

Experience

Technical Intern

Dec. 2025 – Mar. 2026

Nurture Aerospace

On Site

- Designed and 3D modeled lightweight airframes and payload mounts for surveillance drones using CAD tools.
- Researched FPV drone architectures, propulsion systems, telemetry, and counter-drone technologies while aligning designs with safety and regulatory requirements.
- Contributed to fleet management solutions by evaluating tracking hardware, telemetry links, and web-based monitoring systems.

Project Cell – Tech Lead

Jul. 2025 – Present

College Club

On Site

- Led hardware–software prototyping teams and implemented ESP-NOW based low-latency communication systems for distributed sensor and actuator networks.
- Worked on embedded electronics including soldering, circuit design, battery management systems, and robotics prototyping.

Freelance Full-Stack Developer

Dec. 2020 – Present

Self-Employed

Remote

- Built and deployed a verified Discord bot used across 600+ servers and 300,000+ users using JavaScript, Node.js, and discord.js.
- Developed responsive client websites, dashboards, and UI systems; published an NPM package and explored tools including Unity, Onshape, and EasyEDA.

Projects

GeoClash – Real-Time Territory Control Game | *Next.js, Mapbox, Turf.js, Supabase* | [Live App](#)

2026

- Built a location-based multiplayer PWA where users claim real-world territory by completing GPS loops using Mapbox GL JS and Turf.js.
- Integrated Supabase for real-time synchronization and Google Gemini for AI-verified photo exploration missions.

Quotation – Quotes-Based Social Network | *Next.js, Supabase, TypeScript, Tailwind CSS* | [Live App](#)

2025

- Built a social platform featuring feeds, likes, comments, follows, direct messaging, and notifications.
- Integrated Supabase authentication, PostgreSQL database, and real-time synchronization; developed a responsive PWA with offline support and dark mode.

BEACON – Web Accessibility & Security Auditing Platform | *Python, TypeScript*

2026

- Developed an AI-powered accessibility and security auditing platform to automate WCAG compliance checks.
- Implemented automated website scanning, report generation, and auto-fix pull request creation for detected issues.

SCARO – Supply Chain Risk Monitoring | *TypeScript, Python*

2026

- Developed an AI-powered supply chain monitoring platform with real-time disruption detection and interactive 3D visualization.
- Implemented a specialized India domestic tracking mode for localized logistics monitoring during Echelon 2.0.

Technical Skills

Languages: JavaScript, TypeScript, Python, C/C++, HTML/CSS

Technologies/Frameworks: React, Next.js, Node.js, Express.js, MongoDB, Supabase, Tailwind CSS

Developer Tools: Git, Linux, VS Code, Figma

Hardware & Embedded: ESP32, NRF24L01, ESP-NOW, Arduino, Onshape, EasyEDA

Core Areas: Full-Stack Web Development, Real-Time Systems, AI Applications, Embedded Systems, UAV/Drone Systems