

SWAR CHURI

Virar, Mumbai

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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 – Present

Nurture Aerospace

On Site

- Studied counter-drone systems, airspace regulations, and operational constraints for unmanned aircraft.
- Performed technical analysis of drone detection and mitigation scenarios, including hardware-level understanding through drone teardown.
- Researched drone fleet management architectures and evaluated system compatibility for large-scale operations.
- Analyzed positioning and navigation technologies including GPS, GNSS, RTK, and NavIC, along with GIS-based mapping tools.
- Contributed to system design covering onboard hardware requirements and monitoring dashboard workflows.

Project Cell - Tech Lead

Jul 2025 – Present

College Club

On Site

- **Hands-On Technical Experience:** Engaged in diverse projects involving soldering techniques, battery management systems, and circuit design to build and troubleshoot electronic assemblies.
- **Wireless Communication Projects:** Implemented and experimented with the ESP-NOW protocol to develop efficient wireless communication solutions for embedded systems.
- **Team Collaboration & Problem Solving:** Worked in cross-disciplinary teams to prototype, test, and optimize innovative engineering solutions, honing skills in teamwork, critical thinking, and project management.

Freelancing

Dec 2020 – Present

Front End Back End UI UX

Remote

- Developed numerous Discord bots using JavaScript and Node.js, utilizing discord.js and various other libraries.
- One of the bots was verified and included in over 600 servers, reaching a total of 300,000 users.
- Created numerous websites for bots and various other projects.
- Authored a simple package on NPM.
- Engaged in game development using Unity, worked on AutoCAD with Onshape, and designed PCBs with EasyEDA.

Projects

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

2025

- Built a modern minimalist social platform for sharing and discovering quotes, inspired by Instagram but content-focused.
- Implemented core social features including quote feeds, likes, comments, follows, user profiles, direct messages, and notifications.
- Integrated Supabase for authentication, real-time updates, database management, and notifications.
- Developed a fully responsive PWA with offline support, install prompts, dark mode, and touch gestures.
- Used Framer Motion for smooth animations, micro-interactions, and gesture-based double-tap likes.

VTOL (Vertical Takeoff and Landing) Vehicle | *C++, Arduino, AutoCAD* | [Project Link](#)

June 2024

- Programmed a flight control system in C++ for a custom VTOL aircraft.
- Designed 3D models, technical drawings, and mechanical assemblies for the airframe.
- Created schematics and PCB layouts using EasyEDA for onboard electronics.

Simple Music Bot | *JavaScript, Node.js, discord.js* | [GitHub](#)

November 2020

- Developed a Discord bot capable of streaming music in voice channels.
- Verified by Discord and deployed across 600+ servers with over 300,000 users.

Technical Skills

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

Developer Tools: VS Code, Sublime Text, Replit

Technologies/Frameworks: Linux, GitHub, Figma, MongoDB, Heroku

Leadership / Extracurricular

- Led teams in hackathons.
- Won various Art competitions in School.
- Decent Carrom and Badminton player.
- Has Participated in many hackathons, with good overall ranks.