

SOHAM MAHANGARE

B.Tech Computer Science & Engineering | Indian Institute of Technology Bombay
Founder & CEO, CodeNova | DRDO CAIR Intern | ISRO SAG Intern
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Portfolio

EDUCATION

B.Tech, Computer Science & Engineering

Indian Institute of Technology Bombay (IIT Bombay)

2024 – Present

2nd Year

Senior Secondary — AI/ML, Robotics & Ethical Hacking

Army Public School Khadki, Pune | Ethical Hacking Institute

Graduated 2024

Pune, India

EXPERIENCE

Student Intern — Space Applications Centre (SAG)

Indian Space Research Organisation (ISRO), Govt. of India

2025 – 2026

India

- Worked on satellite applications and AI integration projects under ISRO's Space Applications Centre.
- Gained exposure to mission-critical remote sensing systems and space research workflows.

Student Intern — Centre for AI & Robotics (CAIR)

DRDO, Ministry of Defence, Government of India

Jan 2026 – May 2026

Pune, Maharashtra

- Contributed to AI and robotics research at CAIR under the Ministry of Defence.
- Worked on defence-grade technical solutions with exposure to classified research environments.

Founder & CEO

CodeNova

Aug 2024 – Nov 2025

Pune, Maharashtra

- Founded and led CodeNova — managed team, product development, client delivery, and company growth strategy.
- Delivered full-stack web, SaaS, and AI/ML solutions across multiple client domains.
- Built and deployed websites: devnovate.co, bahamabucks.com, armypublicschoolkhadki.in

Software Developer

Scoreazy

Jan 2025 – Aug 2025

Remote — Canada

- Built and maintained full-stack EdTech platform features; contributed to product development lifecycle.

Event Coordinator — Infrastructure

Techfest, IIT Bombay (Asia's Largest Science & Technology Festival)

Nov 2025 – Jan 2026

Mumbai

- Coordinated infrastructure for events under patronage of UNESCO, UNICEF, Make in India & Digital India.
- Led outreach, institutional collaborations, and national-scale student engagement. Achieved 2nd Position at Techfest 2025.

Senior Student — ATL Innovation Lab

Atal Innovation Mission, NITI Aayog, Govt. of India | Army Public School Khadki

Aug 2024 – Dec 2025

Pune

- Led interdisciplinary projects in Robotics, AI/ML, Web Development, and Ethical Hacking over 3 years.
- Designed and deployed a Smart Inventory Management System for the ATL Lab.

Online Volunteer Coordinator

United Nations Volunteers (UNV Online)

Jan 2026 – May 2026

- Coordinated UN-aligned community initiatives as an online volunteer contributor.

PROJECTS

AI Fire Extinguishing Bot System

Robotics | IoT | Computer Vision | Autonomous Systems | CO₂ Hardware

CBSE Regional Science Exhibition — 1st Rank

- Multi-robot fire suppression system: 2 ground rovers, 1 monitoring unit, 1 fire extinguisher bot, 1 hexagonal drone — built in 2 months.
- AI backend with live simultaneous camera feeds from all 5 bots; supports manual and full AI-controlled autonomous modes.
- Uses CO₂ bombs with ABC powder to extinguish fires within a 5-metre radius. Winner, CBSE Regional Science Exhibition.

JARVIS — AI Personal Assistant

ChatGPT API | ElevenLabs API | Face Recognition | Python | Cross-Platform

Mobile + Desktop

- Full JARVIS-style AI assistant built in 1 month — powered by ChatGPT API + ElevenLabs API (2+ realistic AI voices).
- Features: face recognition login, call management, email summarisation & auto-response, app control, full device automation.

Devnovate CRM Platform

devnovate.co

WebSockets | Full-Stack | SaaS | Real-Time | AI

- Production CRM with real-time leaderboard, role-based tags (Moderator, Intern, CXO, Employee), and live project sharing via WebSockets.
- Tracks employee activity, sends automated meeting reminders; AI-calculated stipends based on performance. Actively used by Devnovate team.

Devnovate TaskForce Platform

future-earn-grid.lovable.app

React | Web App | Gig Platform | Student Income

- Task-based earning platform where college students complete daily tasks and earn real income. Built for Devnovate's student community.

Smart Inventory Management System

ATL Lab, Army Public School Khadki

IoT | Web App | Inventory Management

- Digitised lab equipment and resource tracking for ATL Lab, replacing manual registers with a real-time web-based system.

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, C++, HTML/CSS
Frameworks	React, Node.js, Express.js, Full-Stack Web, SaaS Development
AI / ML	ChatGPT API, ElevenLabs API, Face Recognition, Machine Learning, Computer Vision
Robotics & IoT	Autonomous Systems, Drone Systems, Sensor Integration, Hardware Prototyping
Cybersecurity	Ethical Hacking, GNSS Security, Brute Force, Wi-Fi Deauthentication
Tools	WebSockets, AutoCAD, Git, Real-Time Systems, Lovable AI

ACHIEVEMENTS & RECOGNITION

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- 1st Rank — CBSE Regional Science Exhibition (AI Fire Extinguishing Bot System)
 - 2nd Position — IIT Bombay Techfest 2025 (Asia's Largest Science & Technology Festival)
 - Published Author — Top 1000 out of 1M+ global writers, Summer Book Writing Festival (SBWF) 2025, BriBooks
 - DRDO Intern — Centre for AI & Robotics (CAIR), Ministry of Defence, Government of India
 - ISRO SAG Intern — Space Applications Centre, Indian Space Research Organisation
 - Represented IIT Bombay Techfest under patronage of UNESCO, UNICEF & Digital India
 - Recognised at CBSE Skill Expo & CBSE Science Exhibition for outstanding contributions
 - Director General — APEX Space Research Organisation (ASRO)
 - HackWithIndia — Exceptional leadership and team management