

ROHAN VISHWAKARMA

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Bioengineer | Full Stack Architect | Automation Specialist

OBJECTIVE

Bioengineering undergraduate bridging the gap between biology and technology. Combining strong proficiency in bioinformatics, AI-driven coding, and workflow automation to develop innovative solutions in healthcare and agricultural technology. Proven track record of delivering production-ready full-stack applications, automating complex business workflows, and solving real-world problems through scientific rigor and engineering excellence.

EDUCATION

MIT ADT University

B.Tech in Bioengineering – School of Bioengineering Sciences & Research

Pune, India

2023 – 2027

- Current Status: Third Year (Semester VI - Even) | **CGPA: 7.1**

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3

Frontend: React, Next.js 14, Tailwind CSS, GSAP, HTML5 Canvas, 3Dmol.js

Backend: Node.js, Supabase, PostgreSQL, GraphQL, REST APIs

Bioinformatics: PyMOL, BLAST, GenBank, Clustal Omega, MoleculeCanvas, Autodock (Beginner), Swiss Model (Beginner)

Automation & RPA: Google Apps Script, Zoho, PandaDoc, Zapier, Puppeteer/Playwright, Gmail API, Regex

DevOps & Tools: Git, GitHub, Arduino, Hostinger, Netlify, Cloudflare, Linux (Arch), DNS Management

Additional: Media Editing (Photo/Video), Data Management, Research & Documentation

EXPERIENCE

Freelance Automation Developer

Full Stack & Workflow Automation

Remote

Nov 2025 – Present

- Engineered automated invoice generation systems using Zoho, PandaDoc, and conditional logic forms for enterprise clients.
- Developed automated email campaign workflows using Google Apps Script and Gmail API for client lead management and CRM integration.
- Deployed and managed client websites using Netlify and Cloudflare, handling DNS configurations, hosting migrations, and SSL management.

INNOVATION & RESEARCH

GenBio Explorer | Google DeepMind Hackathon, Gemini API, Bioinformatics | [Live Demo](#)

- Developed an AI-driven interface for natural language-based protein analysis and manipulation using Google's Gemini API.
- Integrated real-time 3D protein structure visualization using 3Dmol.js and molecular viewer tools for structural bioinformatics.
- Enables researchers to query protein databases (GenBank, BLAST) through conversational AI rather than complex command-line tools.

Intelligent Pesticide System | Smart India Hackathon 2025, Robotics, Agri-Tech

- Designed a hybrid autonomous agricultural system utilizing Cable-Driven Parallel Robots (CDPR) combined with ground AGVs.
- Engineered precision pesticide delivery mechanisms for complex terrains, reducing chemical waste by up to 40% through targeted application.
- Developed prototype integrating IoT sensors for real-time crop health monitoring and automated path planning.

ACHIEVEMENTS & CERTIFICATIONS

Technical Certifications & Badges

- Credly Profile:** credly.com/users/rohan-vishwakarma
- Certificate Archive:** github.com/raisun0405/certificates-portfolio