DHVANI MAKTUPORIA

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✉ **Email**

in **LinkedIn**

⬤ **Github**

🌐 **Portfolio**

Aspiring Software Developer with a strong foundation in web development. Passion for solving real-world problems. Enthusiastic about open-source, MERN Stack, AI/ML, and Web3 technologies. GATE Qualified.

EDUCATION

Sarvajanik Institute of Engineering and Technology, Surat
B.Tech in Computer Engineering   Aug 2023 - Aug 2026

Relevant coursework: Programming in C, Java and Python, Computer Networks, Operating Systems, Database Management (SQL and No-SQL), Data Structures, Algorithms, Object Oriented Programming, ASP.NET(C#), Web Development (Javascript and PHP).   **CGPA: 10**

Government Polytechnic for Girls, Surat
Diploma in Computer Engineering   Aug 2020 - Aug 2023

Relevant coursework: Programming in C, C++, Java, Static and Dynamic Web development, .NET Framework (VB.Net), Wordpress, MySQL, Advanced Java (JSP & Servlet), Android Application Development.   **CGPA: 10**

EXPERIENCE

Summer Intern | *Physical Research Laboratory (ISRO, DOS)*   *May 2025 – July 2025*
Skills: Matlab, Simulink, Python, Research & Development, FPGA, Control Systems
- Modeled a three-phase BLDC motor in MATLAB/Simulink and simulated its behavior using Python.
- Made a Python Tkinter GUI to drive the motor that can interact with Arduino to send signals to FPGA and display RPM on GUI.

Full Stack Intern | *Sattvabit*   *Nov 2024 - Jan 2025*
Skills: React.js, Next.js, NestJS, Google Search Console, Problem Solving, Debugging, Bug Fixing
- Completed React frameworks (Next.js, Nest.js) training and applied it in real-world projects
- Utilized Next.js concepts to resolve critical issues, implement new features, and fix bugs to enhance user experience.
- Collaborated with senior engineers on code reviews and functionality implementation.

Contributor | *GSSoC (GirlScript Summer of Code) Ext'24*   *Oct 2024 – Nov 2024*
Skills: HTML, CSS, JavaScript, React.js, Responsive Design, GitHub, Open Source Contributions
- Identified and resolved UI/UX issues, enhanced responsiveness, and improved overall front-end functionality. Contributed 4 pull requests to GitHub open-source project

Software Engineer Intern | *GrapplTech*   *Jun 2024 – July 2024*
Skills: React.js, TailwindCSS, Documentation
- Developed and optimized the front-end of web applications using React.js, improved user experience.
- Developed an open-source and responsive hero component for e-commerce website.

SELECTED PROJECTS

GeoInsight AI | Technologies: React.js, Tailwind CSS, FastAPI, RAG, Chatbot, Open-street Maps **| Github**
- Designed a real-time geospatial analytics platform achieving 99.5% uptime and supporting over 1,000 concurrent users.
- Developed an AI-powered geospatial analytics platform enabling natural language queries on satellite data.
- Improved accessibility of geospatial insights for urban planning and public agencies.

Automated Billing System | Technologies: ReactJS, ViteJS, Redux, MongoDB, TailwindCSS **| Github**
- Developed a full-featured admin panel with dynamic catalog and brand selection, enhancing product management.
- Improved invoice generation speed and reliability for a textile business.
- Optimized image rendering to improve performance of the billing system.

Portfolio Website | Technologies: React + ViteJS, Tailwind CSS, React-Icons **| Website URL**
- Designed an appealing website UI with animations and interactive graphics.
- Optimized responsiveness and enhanced load performance for smooth animation rendering.

Pratibhav (Achieved 2nd position for Best Project recognition) **|** Technologies: HTML, CSS, PHP, Javascript, phpMyAdmin **| Github**
- Designed and developed a fully dynamic QR based feedback system to streamline citizen feedback for the Gujarat Police.
- Led a hackathon team (SSIP Hackthon'22) to deliver a scalable and efficient solution addressing real-world challenges.

SKILLS

Programming Languages: JavaScript, TypeScript, PHP, Java, C++ Python, Solidity
Frameworks and Tools: React.js, Redux, ViteJS, Next.js, Bootstrap, Tailwind CSS, .NET(ASP.NET & VB.NET), Flask
Version Control & OS: Git, Github, Ubuntu, Windows
CMS & Plugins: Wordpress, Elementor, Woocommerce
Databases: MongoDB, phpMyAdmin, MySQL
R&D Tools: Blockchain, Deep Learning, Arduino, Geo APIs
Soft Skills: Problem Solving, Research, Communication, Presentation, Open-Source Contribution, Continuous Learning, Team Collaboration

KEY ACHIEVEMENTS

- **Rs. 2,00,000 SSIP Grant for "GlaucoGuard"** – A Smart Glaucoma Monitoring Device
- **Research Papers :-**
  1. BQPD - Paper Leakage Prevention via Blockchain
  2. Ultrasound Image Enhancement using ESRGAN
  3. Transformer-based Mitosis Detection and Classification in Whole Slide Images(WSIs)
- **Courses :-**
  1. Modern React with Redux Toolkit – Udemy
  2. NextJS Basics & Advanced – App/Pages Router
- **Odoo Hackathon'25 :-** Built a Question-Answer web platform using MERN Stack.