Sanskar Vegad

Full-Stack Developer & DevOps Engineer Specializing in AI & Green Software

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PROFESSIONAL EXPERIENCE

Software Engineer
(Pune, Maharashtra)

Tech Mahindra

November, 2023 – Present

- **Led end-to-end development** of a responsive web application using React.js and TailwindCSS, resulting in a 15% increase in user engagement.
- Oversaw the **entire software lifecycle**, from planning and design to development, testing, deployment, and post-launch optimization.
- Participated om **code reviews** and followed Agile methodologies, improving code quality and development efficiency using **SonarQube and Pylint.**
- Designed and implemented **RESTful APIs** for seamless data flow between frontend and backend**, JWT authentication,** securing user access for 500+ accounts, Deployed the application on **AWS S3 and ECS** ensuring scalability**, DevOps** to streamline development and accelerate deployment cycles.
- Designed and implemented a **Software Sustainability curriculum**, now adopted by over **500 developers and engineers** across the organization, to promote energy-efficient coding and reduce environmental impact in software projects.
- Initiated and implemented sustainable coding practices to reduce software-related carbon emissions through efficient resource use and by Integrating **ESG** (Environmental, Social, and Governance) principles into system architecture to enhance software sustainability and compliance

Freelance Technical Educator
(Pune, Maharashtra)

July, 2024 – Present

- Partnered with an engineering college in Pune to integrate **Green Software Development** into their curriculum, delivering a **three-month training module** on sustainable software engineering principles to equip students with eco-friendly coding skills.
- Delivered DevOps (3-month), Power BI (2-month), **Green Software Design**, and Git/GitHub training at various colleges, developing comprehensive curriculum and hands-on labs.
- Mentored over **250+ students**, guiding them through practical projects, career development, and industry best practices.

PROJECT & SOLUTIONS

I.GreenFinance (Tech Mahindra)
August, 2024 – Present

- Developed an AI-powered green loan platform enabling real-time assistance and expedited loan approvals between lenders and borrowers.
- Led full-stack development and deployment using **React, Vite, Python/Flask, Docker, Supabase, AWS S3, AWS ECS, Amazon Bedrock and JWT authentication.**

Azure OpenAI Assistants Code Interpreter (Tech Mahindra)
June, 2024 – July, 2024

- Created a custom AI code interpreter to optimize programming code for energy efficiency.
- Implemented the solution using **ChatGPT-4, Python, and Azure OpenAI API, integrating it seamlessly into CI/CD pipelines.**

GreenCode Refiner Pipeline (Tech Mahindra) – Press Release
January, 2024 – June, 2024

- Designed the Green Code Refiner, a **CI/CD**-integrated tool that transforms inefficient code into energy-efficient versions by eliminating redundant loops and variables.
- Deployed the refiner within **DevOps pipelines** to promote greener software development practices.

Green IT Maturity Assessment Tool (Tech Mahindra) – White Paper
December, 2023 – March, 2024

- Built a survey-based platform to evaluate and improve organizational sustainability practices.
- Developed a dashboard providing insights into environmental awareness and eco-friendly decision making.

SKILLS

- **AI & LLM Tools –** Bedrock, Claude, Grok, Perplexity, Bolt, Windsurf, Cursor, Hugging Face, OpenRouter, TogetherAI, Groq
- **Core Skills:** Fine-tuning, Generative AI & Diffusion Models, Natural Language Processing (NLP), Deep Learning, AI-Augmented Decision Making
- **Programming & Web:** Python, Core Java, JavaScript, PHP, React, Vite, Flask, REST API Development
- **Cloud & DevOps:** AWS (S3, ECS, Bedrock), Azure, Docker, Kubernetes, Jenkins, Git, CI/CD, Postman, GitHub
- **Data & BI:** SQL, Microsoft Excel, Power BI, Supabase, PostgreSQL
- **Soft Skills –** Leadership, Communication, Problem Solving, Time Management, Teamwork, Quick Learner

EDUCATION

Masters in Computer Application

Sri Balaji University, Pune - **81.7% or CGPA: 8.6/10**

August, 2022 – April, 2024

Bachelors in Computer Applications

Shree Swaminarayan College of Computer Science, Bhavnagar - **74.4% or CGPA: 7.8/10**

October, 2019 – March, 2022

PROFESSIONAL ACHIEVEMENTS & DEVELOPMENT

- Selected as a **mentor and expert** for the **GreenMind Hackathon 2025**, guiding teams on sustainable AI solutions to minimize energy use and carbon emissions in real-world applications (organized by Green Computing Foundation: https://hackathon.greencomputingfoundation.org/).
- Served as a **mentor and jury** member for the **Smart India Hackathon (SIH)** in 2024 and 2025, evaluating innovative projects in agriculture, food tech, and rural development with a focus on sustainability and practical impact.
- **Gold Medalist** in Master's degree program, recognized for outstanding academic performance.
- Served as **DevOps instructor** at Symbiosis Institute of Technology, Pune, teaching students software deployment and DevOps best practices.
- Won a **debate competition** during master's program (awarded certificate and medal).
- Attended **AWS Mumbai/Pune** Meetup to engage with AI and cloud communities & modern data solutions.
- Attended Agentic AI Conference by **DataScienceDojo** to learn about cutting-edge AI research.
- Attended **Snowflake Pune** event to explore modern data solutions & AI Solution.