Sameer Tadavi

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Education

Vishwakarma Institute Of Technology, Pune **2021 – 2025**
Bachelor of Technology in Electronics and Telecommunication *CGPA - 8.19*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Database Management
- Operating system
- Object-oriented Programming
- Deep Learning

Projects

SiteGenie | *Web Containers, Node.js, React.js, Express.js, LLMs* | GitHub **March 2025**
- Developed an AI-driven platform enabling users to create fully functional websites directly within their browsers.
- Designed and implemented an intuitive user interface using **React.js**, enhancing user experience and accessibility.
- Established an extensible architecture to support multiple Large Language Models **(LLMs)**.

ClubSpark | *ReactJS, TailWindCSS, NodeJS, MongoDB, ClerkJS, Python* | GitHub **February 2024**
- Developed a website for clubs to manage activities like announcements, events, team meetings and recruitments.
- Created an user friendly frontend using **ReactJS**, **Framer Motion** and **GSAP** with 100% SEO performance.
- Used **NodeJS** and **MongoDB** on backend to manage club reviews, feedback and **ClerkJS** for user authorization.

Lang Connect | *ReactJS, TailWindCSS, AceternityUI, NodeJS, MongoDB* | GitHub **February 2024**
- Developed a platform enabling users to discover language tutors and schedule available personalized sessions.
- Utilized **AceternityUI** components and Framer Motion to develop frontend achieving with 90% SEO.
- Used NodeJS and MongoDB to store user registration data for role based authentication at backend.

MeduSim VR | *Unity3D (C#), Blender, ESP-WROOM-32, Arduino IDE, Haptic Feedback* | GitHub **July 2023**
- Developed a VR medical training simulator for students to practice procedures in an interactive environment.
- Designed and implemented realistic 3D assets in **Blender** and integrated VR mechanics using **Unity3D**.
- Engineered haptic feedback gloves with **ESP-WROOM-32**, servo motors, and joysticks, enhancing tactile interaction.
- Improved training accessibility by enabling unlimited hands-on practice without requiring physical medical equipments.

Student's Self Organizer | *Java, Java Swing, Java AWT, MySQL* | GitHub **May 2023**
- Built a GUI using **Java SWING** to manage portal passwords, important links and documents, to-do lists for users.
- Designed an interactive dashboard to ease navigation across multiple features using **Java AWT** components.
- Implemented CRUD operations at backend using **JDBC API** and **MySQL** database for managing user data.

Technical Skills

Languages: Java, C, Python, JavaScript, PHP, SQL, HTML, CSS
Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Redux, Tailwind CSS, REST API
Databases: MySQL, MongoDB
Tools & Platforms:: GitHub, VS Code, IntelliJ, Linux

Certifications

- IBM Full Stack Software Developer Professional Certificate – Coursera
- Designing User Interfaces and Experiences (UI/UX) Certificate – Coursera

Publications

- Authored paper "Automatic Billing Trolley" published on IEEEXplore.
- Authored paper "VR Based Medical Procedure Simulator with Haptic Feedback Gloves" published on IEEEXplore.
- Authored paper "Ration Reach: Automatic Ration Distribution System" published on IEEEXplore.

Extracurricular

- Coordinated crowd management and assisted in organizing operations during the Ganpati Festival as a volunteer with the Social Welfare and Development Committee.
- Led the SciPhy Club Multimedia Team, overseeing the production of digital content, enhancing the club's online visibility, and managing social media engagement.