

Serene Dmello

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LinkedIn | GitHub

About Me

Computer Engineering undergraduate focused on full-stack web development, databases, and C++. Interested in building scalable applications and contributing to engineering teams through practical problem-solving and software development.

Education

- Fr. Conceicao Rodrigues College of Engineering, Mumbai — B.E. Computer Engineering, CGPA: 9.27 2023–Present
- Vidyavardhini's Annasaheb Vartak College, Mumbai — Science (HSC), 80.67% 2021–2023

Technical Skills

Programming Languages: C, C++, JavaScript, SQL

Web Development: React.js, Node.js, Express.js, REST APIs, JWT, Socket.io, Zustand, HTML, CSS, Tailwind CSS, Bootstrap

Databases & Tools: MongoDB, MySQL, PostgreSQL, Git, GitHub, Vite, NPM, Axios, Postman, Vercel, Render, Gemini API

Projects

BrightBuilds | React.js, Express.js, MongoDB, JWT | [GitHub](#) | [Live Demo](#)

- Built a role-based full-stack platform with **27 REST APIs**, JWT authentication, and admin moderation workflow (Pending, Approved/Rejected).
- Implemented leaderboard engine (Top 5 Weekly, Top 10 Overall), multi-role dashboards, and SDG aggregation across **17 UN goals**.
- Designed scalable backend models for projects, comments, and ratings enabling efficient queries and multi-file uploads.

OrgFlow | MERN, JWT, Socket.IO, Zustand | [GitHub](#) | [Live Demo](#)

- Developed a task management system with **28 REST APIs**, JWT-based RBAC (Admin/Employee), and secure httpOnly cookie authentication.
- Designed structured workflow with **5 task lifecycle states**, real-time communication via **Socket.IO**, and automated email notifications.
- Built analytics dashboards with interactive charts and implemented **Zustand**-based global state management for predictable frontend state handling.

BharatSecure | React.js, Django Rest Framework, SQLite, Gemini API | [GitHub](#) | [Live Demo](#) | [Video](#)

- AI-powered civic reporting platform with predictive safety insights and location-aware dashboards.
- Built **26+ pages** and **34 components**, integrating **13+ REST APIs** for incident reporting, AI forecasting, pothole detection results, heatmaps, and JWT-protected role routing.
- Implemented GPS reporting, reverse geocoding, dynamic heatmaps (Leaflet), **Gemini**-powered forecast dashboards, and role-based UI rendering.

Achievements

- **1st Place – Tech-Mania 2K25, L.S. Raheja College** Feb 2025
Won 1st place for presenting **BharatSecure**, an AI-powered women safety and incident reporting platform. [Certificate](#)
- **1st Runner-Up – Oscillation Hackathon, Ashwamedh 2025 (VPPCOEVA)** Apr 2025
Secured runner-up position for developing **TravelSafe**, an AI-based travel safety system. [Certificate](#)
- **Dual Track Winner – CODESTORM Hack 2025 — GLOBAL (FIU)** May 2025
Won two tracks for a multilingual AI-powered public assistance platform. [Certificate](#)