Shubham Dattatray Asole

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Aspiring Software Engineer skilled in Java, JavaScript, and backend development, passionate about open-source, Linux environments, and building scalable, reliable engineering solutions.

Skills

Programming Languages: Java, JavaScript, Python, SQL, HTML5, CSS3.
Core CS Concepts: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Linux.
Frameworks & Tools: React, Redux, Node.js, Express.js, MongoDB, MySQL, Git, REST APIs.
Testing & Automation: Jest, Postman, automated API testing.
Other Tools: VS Code, GitHub, Linux CLI, Bash scripting (basic).
Soft Skills: Collaboration, communication, problem-solving, curiosity, adaptability.

Education

BTech in Electronics and Communication Engineering
Indian Institute of Information Technology Design and Manufacturing, Kancheepuram   *2022 – Present*

Key Projects

StatzHub – Full-Stack Trading & Investment Platform   — [GitHub]

- Worked in an **agile, iterative workflow** to deliver features collaboratively.
- Built modular REST APIs using **Node.js + Express**, and optimized MongoDB schemas for performance.
- Implemented **automated backend tests** for validation and API response handling.
- Integrated secure **JWT-based authentication** with middleware and session flow logic.
- Designed a fully responsive React dashboard following **component-driven development**.
- Used Git for **version control**, collaboration, and issue-based development.

GoBnB – Full-Stack Accommodation Booking Platform   [Live Demo] — [GitHub]

- Developed a full-stack web app inspired by Airbnb for property listings and bookings.
- Built RESTful APIs with **Node.js** and **Express.js**; integrated **MongoDB (Mongoose)** for data modeling.
- Implemented authentication & session management with **Passport.js**, **express-session**, and **connect-flash**.
- Integrated **Cloudinary** for image uploads and **Mapbox** for interactive maps & geocoding.
- Used **Joi** for data validation, followed MVC architecture, and optimized front-end with **EJS-Mate** & Bootstrap.

Weather Widgets – React + OpenWeatherMap API App   [Live Demo] — [GitHub]

- Built a responsive weather application using **React** and **Vite**, powered by the **OpenWeatherMap API**.
- Implemented real-time weather fetching with temperature, humidity, and sky condition data for any city.
- Designed modular components (**SearchBox**, **InfoBox**, **WeatherApp**) for scalability and reusability.
- Styled with **Material UI** and **CSS**, ensuring a sleek and modern user experience.
- Demonstrated proficiency in **API integration**, state management, and environment variable configuration.

Snake Game   [Live Demo] — [GitHub]

- Developed a classic Snake Game using **HTML**, **CSS**, and **JavaScript**.
- Implemented dynamic snake movement, collision detection, and real-time scoring logic.
- Added sound effects, increasing speed on milestones, and responsive grid-based design.
- Demonstrated strong DOM manipulation, event handling, and UI animation fundamentals.

Internship Experience

Embedded Systems Intern   *Startrit Infratech Pvt Ltd — May 2025 – July 2025*

- Worked closely with a senior engineer to design real-time embedded solutions.
- Developed modules integrating sensors and motor drivers using **C and Python**.
- Wrote and executed **test scripts**, validated hardware functionality, and automated workflows.
- Followed agile practices including sprint planning, demos, and daily standups.
- Collaborated using GitHub for version control and documentation.

Position of Responsibility

Hostel Affairs Coordinator   *IIITDM Kancheepuram — Mar 2023 – Apr 2024*
Managed operations for 1000+ hostel residents, coordinated events, and led a team of volunteers.