

# Swastika Dey

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## Professional Summary

Aspiring Computer Science graduate with practical experience in building and deploying scalable full-stack applications. Skilled in modern frameworks and technologies including React, Next.js, Firebase, and MongoDB. Adept in data structures and algorithms, consistently refining problem-solving abilities through platforms such as LeetCode. Passionate about creating impactful digital solutions and delivering end-to-end functionality across various tech environments.

## Education

**Vellore Institute of Technology, Bhopal**

Sept 2023 – Present

*B.Tech in Computer Science*

*CGPA: 8.25. Key modules: Programming, Computer Systems.*

**Sinhgad Public School, Lonavala**

May 2023

*HSC (CBSE)*

*Scored 61.6%. Specialized in PCM with applied mathematical reasoning.*

**Sinhgad Public School, Lonavala**

May 2021

*SSC (CBSE)*

*Scored 91.8%. Excelled in foundational sciences and quantitative aptitude.*

## Technical Skills

- **Languages:** C/C++ (for DSA and systems-level work), Python (scripting, automation), SQL (data querying), JavaScript (frontend logic), HTML, CSS
- **Frameworks:** React.js (UI development), Node.js/Express.js (backend logic), Next.js (SSR and routing), MongoDB (NoSQL database)
- **Tools:** Git/GitHub (version control), VS Code, Tailwind CSS (utility-first styling), Firebase (auth/database), Google Colab (collaborative coding), Canva (UI design)

## Projects

**VIT College News Portal** — Next.js, Node.js, MongoDB, Tailwind CSS, JavaScript

- Built a dynamic campus news portal enhancing real-time communication for 500+ VIT students, faculty, and staff.
- Developed an intuitive, responsive UI for multi-device access and reduced email dependency by 60%.
- Implemented a role-based content management system (CMS) enabling secure publishing of events, announcements, and academic updates.
- Integrated real-time notification system using JWT authentication and push alerts, improving event engagement by 40%.
- Incorporated analytics for admin insights and optimized content strategy through user interaction tracking.

**Financial-Dashboard** — Node.js, Express.js, MongoDB, JavaScript, Bootstrap

- Developed a full-stack financial dashboard to track income, expenses, pending payments, and supplies for small-scale organizations in real-time.
- Designed an intuitive and responsive UI using HTML, CSS, and Bootstrap; visualized financial metrics via interactive charts for actionable insights.
- Integrated real-time analytics, supply tracking, and overdue payment alerts, enabling quicker decision-making and improved financial planning.
- Implemented robust validation and testing strategies (Jest, UI/UX feedback), enhancing system reliability and user satisfaction.

## **Ignite Fitness** — HTML, CSS, Django, SQL, Gemini API

- Designed a role-based web system managing profiles of 200+ gym members, trainer schedules, and fee tracking.
- Developed secure access layers for admins, trainers, and front-desk staff to streamline internal operations.
- Leveraged Gemini API for automated billing and backend logging, improving administrative efficiency.

## **Certifications Coursework**

- **Certifications:** Fundamentals of AI and ML (Vityarthi) – Covered ML pipelines, classification techniques, and model tuning.
- Python Essentials (Vityarthi) – Practical programming skills including data structures, modules, and file operations.
- Programming in Java (Vityarthi) – Covered OOP principles, exception handling, collections framework, and file I/O; included hands-on practice with Java syntax, class design, and modular programming.
- Operating Systems and Systems Programming (Cursa) – Explored process management, memory allocation, file systems, and system calls; emphasized low-level programming concepts with hands-on system-level code examples.
- **Coursework:** Data Structures, Algorithm Analysis, OOP in C++, Artificial Intelligence, Operating Systems, DBMS – Emphasis on scalability and design optimization.