# SOURABH SHENDE

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**Linkedin** | **GitHub**

## Education

**Dhole Patil College of Engineering** — Pune
BE Information Technology — 2023 - Present

**AISSMS Shri Shivaji Preparatory Military School** — Shivajinagar, Pune
Degree in HSC — July 2019 - May 2021
*Percentage: 79.67%*

## Experience

**TechnoHacks Solutions PVT. LTD. | Web Dev. Intern** — Nashik | Jan 2026 - Feb 2026

- Designed and developed responsive web applications using HTML5, CSS3, JavaScript, and modern frontend frameworks
- Implemented cross-browser compatible solutions and optimized website performance for enhanced user experience
- Collaborated with team members to troubleshoot and debug code, gaining practical experience in web development workflows

## Skills

| | |
|---|---|
| Programming Languages: | C++, HTML, CSS, JS, Embedded Systems & IoT: Arduino (C/C++) |
| Tools / Platforms: | VS Code, Git Hub, Eclipse, IntellJ, Jupyter |
| Databases: | MySQL |

## Projects / Open-Source

**EaseMath: Mathematical Web Toolkit | Link** — *HTML, JavaScript, CSS*

- Built a comprehensive suite of single-page web applications including base converter, polynomial equation solver, function grapher, and matrix calculator
- Implemented complex mathematical algorithms in pure JavaScript without external frameworks, supporting binary/decimal/hexadecimal/octal conversions and quadratic/cubic equation solving
- Designed responsive, distraction-free UI using Tailwind CSS with focus on computational accuracy and user experience

**Anti-Sleep Alert System | Link** — *Arduino C++, IR Sensors, Embedded Systems*

- Developed a real-time drowsiness detection system using IR sensors mounted on safety glasses to monitor eye closure patterns
- Implemented Arduino-based logic with timing algorithms that trigger buzzer and LED alerts when eyes remain closed for over 3 seconds
- Integrated Serial Monitor debugging and cloud-based notification capabilities for remote monitoring and data logging

**Li-Fi(Data Transmission Through Light)** — *Optical Sensors, LED Modulation*

- Engineered a bidirectional wireless communication system utilizing LED light modulation and photodiode reception for data transmission
- Implemented signal processing algorithms to achieve reliable data transfer rates in visible light spectrum
- Designed for secure, high-speed communication in electromagnetic interference-sensitive environments such as hospitals and aircraft