

Pranav Sonawane

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Education

MIT Manipal

2022 - 2026

Bachelor of Technology in Computer and Communication Engineering

Manipal, KA

- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming (JAVA), Data Base Systems (SQL), Computer Networks, Operating Systems, Embedded Systems, Wireless Communication And Computing, Information Security

Projects

LaundryLink | PL-SQL, SQL, C#

- Created a comprehensive hostel laundry management system with features for user authentication, order processing, and payment management using C# and Oracle Database.
- Designed 20+ PL/SQL procedures, improving database efficiency by 40%.
- Reduced order processing time by 30% through automation.
- Increased system reliability with a 99% uptime by implementing robust database triggers.

Graphical Password System | Flask, OpenCV, AES Encryption, Python

- Developed a web-based graphical password system with customizable grid sizes, enabling up to 25 unique segment combinations for highly personalized graphical passwords.
- Enhanced security with 256-bit AES encryption, securing user-selected image segments and reducing risk of unauthorized access by 100% for automated attacks by preventing plaintext storage of user passwords.
- Reduced brute-force risk by 99% with a 5-attempt lockout mechanism, providing a 5-second delay before reattempts to prevent rapid retry exploits and increase system security.
- Delivered a responsive and user-friendly UI with 100% browser compatibility, allowing smooth operation across desktop and mobile browsers, meeting accessibility standards.

Personal Portfolio Website | HTML, CSS, JavaScript, Git

- **Responsive Design:** Built a fully responsive website using HTML, CSS, and JavaScript, ensuring optimal viewing across all devices.
- **Sectioned Layout:** Developed distinct sections for Home, Education, Projects, and Contact, providing a clear and organized presentation of my skills and background.
- **Project Showcase:** Featured a project gallery with detailed descriptions to highlight my key projects and technical expertise.

Technical Skills

Languages: Java, Python, C, C++, C#, SQL, JavaScript, HTML, CSS

Technologies: ASP.NET, React, Node.js, Bootstrap

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, MATLAB

Achievements

- **Third Prize, NTSE:** Successfully cleared and secured a District Rank 3rd in National Talent Search Exam.
- **SIP Abacus:** Successfully completed the seven levels of Abacus training, showcasing a high level of proficiency in mental arithmetic and a disciplined approach to mastering advanced mathematical techniques.

Social Engagements

Campus Ambassador: For Physics Wallah

Management Committee Member : at Manipal Information Security Team

Volunteer: at NSS Manipal - NGO run by students of MIT Manipal.

Organizer: Techatva'23 (Tech-fest) Revels'24 (Cultural fest) .