SAPNA KUMARI

Ludhiana, Punjab

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EDUCATION

Guru Nanak Dev Engineering College　　　　　　　　　　　　　　　　**2019 – 2023**
Bachelor of Technology, Information Technology　　　　　　　　　　　*Ludhiana, PB India*
Guru Nanak Dev Polytechnic College　　　　　　　　　　　　　　　　**2016 – 2019**
Diploma, Electronics and Communication Engineering　　　　　　　　*Ludhiana, PB India*

TECHNICAL SKILLS

Programming Languages: C++, HTML / CSS, Javascript, Latex
Libraries / Frameworks / Database: Node.js, Express.js, Angular, MySQL.
Developer Tools: Github, Postman, VS Code, Version Control.

PROFESIONAL EXPERIENCE

MEAN Developer Intern | CDAC,Mohali　　　　　　　　　　**Nov 2023 - Present 2024**

- Centre for Development of Advanced Computing (C-DAC) is the premier RD organization of the Ministry of Electronics and Information Technology (MeitY) for carrying out RD in IT, Electronics and associated areas.
  - **Projects made by CDAC, Mohali:** eAkadamik: ERP system for Universities/Academic Institutions, eMulazim, eRera - Real Estate Regulatory Authority Process Automation Solution, Unicode Converter, Library of Designs (Ver.1.0 Phulkari), Indian Embroidery, SightSaver – An AI diagnostic platform for retinal diseases, eSanjeevani – National Telemedicine Service, eHIVCare - National Telemedicine Network for People Living with HIV/AIDS (PLHIV), CDACSIEM, Cyber Threat Management System, C-DAC Attack Dataset and Analysis Repository (C-ADAR)
- And I worked on Project Cyber Threat Management System as a Web developer.

REAL TIME PROJECTS

Ticketing System | MySQL, Angular, NodeJS, Version Control　　　　　　　　　**2024**

- Proficient in developing secure and efficient authentication systems using Angular and MEAN stack technologies.
- Experienced in designing and implementing RESTful APIs for seamless communication between front-end and back-end systems.
- Strong background in using CSS for UI/UX enhancement and ensuring responsive design across multiple devices.

Gesture Control Car Using Arduino | Embedded System, Sensor Control, Arduino uno　**2023**

- Gesture recognition is a technology that uses sensors to read and interpret hand movements as commands.
- Designed the overall architecture and circuitry for the gesture control system.
- Collaborated with team members to troubleshoot technical issues and optimize system performance.
- Conducted extensive research on gesture recognition algorithms and methodologies to implement the most efficient solution.

Smart Irrigation System | Arduino, Soil Sensors, Embedded System.　　　　　　　**2023**

- Smart irrigation technology uses weather data or soil moisture data to determine the irrigation needs of the landscape.
- It maximizes irrigation efficiency by reducing water waste while maintaining plant health and quality.
- Successfully developed a smart irrigation system that optimizes water usage by delivering the right amount of water at the right time, resulting in significant water conservation and cost savings.
- Implemented predictive algorithms that anticipate future irrigation needs based on historical data and weather forecasts, improving overall system efficiency.

EXTRA CURRICULAR ACTIVITIES

- Achieved first position in the 400m race at the College Athletic Meet in 2019, showcasing dedication, discipline, and athletic prowess.
- Secured second position in the 800m race at the College Athletic Meet in 2019, demonstrating endurance, competitive spirit, and athletic excellence.