Satbir Singh

Bachelor of Technology
Information Technology
Guru Nanak Dev Engineering College

+91-9872626522
satbirsinghubhi@gmail.com
linkedin.com/in/satbir-singh-486587254
github.com/Satbir-Singh-42

EDUCATION

Degree/Certificate	Institute	Year
B.Tech., Information Technology	Guru Nanak Dev Engineering College, Ludhiana	2022–Present
Senior Secondary	Bharatiya Vidya Mandir School, Ludhiana	2022
Secondary	Adarsh Public School, Ludhiana	2020

EXPERIENCE

- **Self-Employed**   *Nov 2023 – Present*
  Freelance Web Designer   Remote
  ◦ Design a custom recruitment management web app for GNDEC to digitize and optimize hiring workflows
  ◦ Redesigned GNDEC's Training & Placement website, enhancing UI/UX and mobile responsiveness
  ◦ Designed an integrated campus societies management system for organizing events and team coordination

PROJECTS

- **IoT-Based Heart Rate Monitoring System**   *Nov 2023 – Jan 2024*
  Tools: Flask (Python), React, Tailwind CSS, SQL, ESP32   [Link]
  ◦ Built a real-time IoT-based heart rate monitoring system using Pulse Sensors and ESP32 for continuous cardiovascular tracking
  ◦ Integrated data processing algorithms to analyze heart rate and generate actionable insights, including real-time alerts for abnormal readings
  ◦ Developed a responsive web dashboard using React and Tailwind CSS for visualizing historical health data
  ◦ Enabled remote health monitoring to assist healthcare professionals and users in making informed decisions

- **Python Tkinter Automation Toolkit**   *Feb 2024 – Ongoing*
  Tools: Python, Tkinter, SMTP, OS, PyPDF2, Requests   [Link]
  ◦ Designed a desktop GUI toolkit using Tkinter to automate repetitive system and web tasks efficiently
  ◦ Tools include: Bulk Email Sender using SMTP, PDF Editor (merge/split/convert), Web Image Scraper, and Bulk File Renamer
  ◦ Focused on intuitive UX, robust error handling, and code reusability for non-technical users
  ◦ Deployed across various personal and academic scenarios to simplify digital workflows

SKILLS

- **Programming Languages**: Python, C++
- **Tools**: Git/GitHub, Jenkins, Docker, Figma
- **Databases**: SQL
- **Data Science**: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch
- **Visualization**: Tableau, Power BI, Matplotlib, Seaborn

CERTIFICATIONS

- **SQL (Intermediate) Certificate** HackerRank   *Feb 2025*
- **Infosys Python Programming Course** Infosys   *July 2023*

ACHIEVEMENTS

- **Second Prize – Inter-College Mobile App Designing Competition** GNA University   *Mar 2025*
- **First Prize – GNA Hackathon 3.0 (CodeTyrans Team)** GNA University   *Mar 2025*

POSITIONS OF RESPONSIBILITY

- **Co-Coordinator & Media Head** - Training and Placement Cell, GNDEC   *May 2025 – Present*
- **Database Head** - Indian Society for Technical Education, GNDEC   *Sep 2024 – Present*
- **Technical Head** - 90.8 MHz FM Community Radio, GNDEC   *Sep 2024 – Present*