

BHANU PRATAP SINGH

+91 7878097071 [◇ Portfolio](#) [◇ LinkedIn](#) [◇ Github](#)

SUMMARY

Final-year Computer Science student with hands-on experience in mobile app development, software engineering, and DevOps. Passionate about creating innovative solutions and contributing to contemporary research in bioinformatics.

EDUCATION

B.Tech – Computer Science and Engineering (AI and ML Specialization), SRM Institute of Science and Technology 2021 - Present

EXPERIENCE

Mobile App Developer, Freelance Oct 2023 - Present

- Developing a React Native app for smart beds, implementing features like sleep tracking and smart scheduling and integrating different sensors to Nvidia Jetson for data processing.
- Designed analytics dashboard with ML integration for personalized sleep pattern visualization and optimized cross-platform performance.





Research Assistant, DNA Sequence Error Detection for Bioinformatics 2024

- Developed a hybrid methodology integrating PySAM and DNABERT for enhanced DNA sequence error detection
- Implemented quality-based read filtering and error profiling techniques, improving data reliability

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, SQL
Mobile/Web	React Native, React, Node.js, Flask, Django, Next.js
Data Science	Pandas, NumPy, Scikit-Learn, Tensorflow
DevOps	AWS, GCP, Terraform, Ansible, Git, Linux
Other	MongoDB, MySQL, Firebase, Raspberry Pi, Figma

PROJECTS

- **Payment Fraud Detection:** Trained an ML model to identify fraudulent activities in transactional data 
- **BaatCheet:** Real-time chat application with Django and WebRTC for secure communication 
- **Weather Station:** IoT project using Raspberry Pi and DHT11 sensor for environmental readings 
- **Emotion-based Song Recommendation:** Flask web app using sentiment analysis for song recommendations 

ACHIEVEMENTS

- Co-founded Hermetics.in, an online clothing store, selling over 500 articles through Instagram
- First place at Techknow-2022 at SRMIST for developing an energy-efficient streetlight system
- Second place at Research Day-2023 at SRMIST for a paper on Blockchain Technology

CERTIFICATIONS

Google Cloud Computing Foundation (NPTEL - IIT Kharagpur, 2023), Networking Essentials (Cisco, 2023), Machine Learning Foundations (AWS Academy, 2023)

ADDITIONAL INFORMATION

Languages: English (Fluent), Hindi (Native)

Interests: Music Production, Solo Travelling, Emerging Technologies

Soft Skills: Effective Communication, Time Management, Problem-Solving, Teamwork