Amrit Sharma

📞 986-606-2590   🔗 sharmaamrit.com.np
✉ amritsharma1027@gmail.com   linkedin.com/in/amrit-sharma999/   github.com/amritsharma01

Education

Pulchowk Campus, Tribhuvan University   2021 - 2025 (Expected)
Bachelor of Computer Engineering(Running)   *Chakupat, Lalitpur*
- **Relevant Coursework:** Object Oriented Programming, Data Structures and Algorithms (C++), Prob & Stat, Theory of Computation, Software Engineering, Artificial Intelligence, Project Management, Applied Data Science, Computer Network, Distributed Systems, DevOps

SOS Hermann Gmeiner School, Gandaki   2018 - 2020
Higher Secondary Education, Science Stream (CGPA 3.74)   *Rambazar, Pokhara*

Experience

Askme Global   Oct 2024 – Jan 2025
Flutter Intern   *Lalitpur*
- Worked with a team to enhance the UI/UX of a mobile application using Flutter, improving usability and user satisfaction.
- Worked under seniors to optimize application performance by streamlining state management and implementing efficient navigation flows.
- Contributed to improving API integrations, ensuring smooth communication between the app and backend system.

Projects

RSA Algorithm Implementation | *C*
- Implemented the RSA algorithm from scratch in C, providing functionalities for key generation, encryption, and decryption.
- Developed the program to handle large prime number generation, modular exponentiation, and calculation of the public and private keys.
- Ensured secure communication by encrypting and decrypting messages with RSA, demonstrating the application of public-key cryptography.
- Optimized the code for performance, handling encryption and decryption of messages efficiently using C's standard libraries.

Examination Invigilator Management System | *HTML, CSS, Bootstrap, Django*
- Collaborated with a teammate to develop an invigilator management system using Django.
- Designed and implemented a responsive and visually appealing user interface using HTML, CSS, and Bootstrap, enhancing user experience across devices.
- Developed comprehensive CRUD operations for managing invigilators and examination schedules, ensuring ease of use and reliability.
- Integrated a secure login system with role-based access control, ensuring data privacy and compliance.

Facial Recognition based Security System | *Python, Django, Django Rest, TensorFlow, Flutter, C++*
- Trained a Siamese network based AI model to effectively and accurately recognize the faces.
- Developed a mobile application using Flutter, allowing users to show their face for recognition .
- Utilized Django and Django Rest Framework to ensure the effective communication between mobile application and the server.
- Integrated an ESP module to control a servo motor, unlocking the door if the face was verified.

Jhattasamachaar | *Python, Django, Django Rest, Flutter*
- Worked in a team to develop a server-side solution that scrapes news from various websites based on user-selected categories.
- Utilizing machine learning algorithms to summarize news articles efficiently, providing short, concise summaries.
- Built a Flutter app allowing users to view summarized news, set their preferred news categories, and listen to audio news bulletins directly within the app.

- Designed a user-friendly interface and smooth navigation to enhance the overall user experience.

Seismic Image Denoising and Resolution Enhancement (In Progress) | *Python, OpenCV, Jupyter Notebook*
- Developing a solution to denoise and enhance the resolution of seismic images using advanced image processing techniques.
- Utilizing a U-Net model with added subpixel and ResNet layers to improve denoising and enhance image resolution, resulting in more accurate seismic data interpretation.
- Implementing OpenCV for image processing tasks and applying filters to remove noise from seismic images.
- Designing a model to upscale low-resolution seismic images, ensuring accurate geological insights.

EasyHire (In Progress) | *Python, Django, Django REST Framework, Flutter*
- Developing a comprehensive recruitment platform with a seamless user experience across mobile devices using Flutter.
- Implementing secure user authentication and authorization mechanisms, ensuring data privacy and protection.
- Utilizing Django REST Framework to build robust APIs that facilitate efficient communication between the mobile frontend and backend services.
- Ensuring responsive design and optimal performance across various devices and screen sizes.
- Integrating advanced search and filtering capabilities to enhance user engagement and streamline the hiring process.

Skills

Programming Languages: C, C++, Python, Dart
Technologies: Flutter, Django, Django REST,Firebase, WordPress, Bootstrap, NumPy, Pandas, MySQL
Miscellaneous: Git and GitHub, Linux, Canva, Latex

Additional Information

Soft Skills: Public Speaking, Project Management, Team Leadership
Languages: English, Nepali, Hindi, German (Beginner)
Interests: AI-ML, Cricket, Chess, Movies, Drawing