



# HASNAIN MUNAWAR

UNDERGRADUATE STUDENT    📍 RAWALPINDI, PAKISTAN    ☎ 03137745218

## ◦ DETAILS ◦

Rawalpindi  
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## ◦ SKILLS ◦

Python ( Django / Flask )  
Mern Stack  
TypeScript  
JavaScript  
Vue Js  
Nuxt Js  
Nest Js  
Next Js  
Rust  
SQL  
Git / Github  
Amazon web Services



## PROFILE

I am Husnain Munawar, a prospective graduate eager to kickstart my career in web development through an internship opportunity. With a solid foundation in full-stack development and two impressive solo projects, I am actively seeking hands-on experience to further enhance my skills and contribute to innovative projects.



## EDUCATION

**BSSE, Foundation University School of Science and Technology , Rawalpindi**  
September 2021 — June 2025

**ICS, Askaria College Boys wing Saddar Rawalpindi, Rawalpindi**  
September 2019 — July 2021

**Matric , F G Sir Syed Boys Secondary High School Rawalpindi Cantt, Rawalpindi**  
March 2009 — June 2019




## TECHNICAL SKILLS

### Multi User Chat Web Application

1. Secure user authentication and authorization mechanisms, including features like login, registration, password reset, and role-based access control.
2. Integrating real-time features such as chat or notifications using technologies like WebSocket or Socket.IO.
3. Designing efficient database schemas and managing data relationships using MongoDB and Mongoose.
4. Architecting the application to handle increasing numbers of users and data, including horizontal scaling strategies and load balancing.
5. Creating a robust API architecture following RESTful principles for handling client-server communication.
6. Writing unit tests, integration tests, and end-to-end tests to ensure the reliability and correctness of the application's functionality.
7. Implementing logging mechanisms and integrating monitoring tools to track application performance, identify errors, and troubleshoot issues in real-time.
8. Building responsive and interactive user interfaces using modern JavaScript frameworks like React, handling state management, and ensuring a seamless user experience.

### Netflix Clone

1. Implementing high-quality audio and video streaming demands a robust server infrastructure to efficiently manage and deliver media files to users, ensuring seamless playback experiences.
2. Enabling HLS support involves meticulous handling of media playlists and segmentation, necessitating the integration of specialized libraries like hls.js for client-side playback alongside server-side tools such as FFmpeg for processing.
3. To offer adaptive streaming with varying resolutions (e.g., 720p, 480p), meticulous video transcoding using tools like FFmpeg is essential. This process ensures optimized video files tailored to different devices and network conditions.

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4. Integrating FFmpeg into the project facilitates a broad spectrum of multimedia processing tasks, including transcoding, resizing, and format conversion, ensuring efficient handling of media files within the streaming infrastructure.
  5. Leveraging Django as the backend framework enables rapid development of robust web applications with clean architectural patterns. Its comprehensive feature set supports essential backend functionalities such as user authentication, database management, and API development.
  6. Employing MySQL as the relational database management system ensures efficient storage and retrieval of critical application data, including user profiles, video metadata, and session information, fostering seamless data management and scalability.