

# Syed Mufassir Shah

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## Skills

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- Python · Django · React · MySQL · PostgreSQL · Django Rest Framework · JavaScript · Git · DTL · Object-Oriented Programming (OOP)

## Experience

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**Web Developer Intern**      **ScentedDreams | NEP-NIC's KUST Startup**      *Kohat, Pakistan*      **Mar 2023 – Sept 2023**

- Designed and developed a full-stack eCommerce platform using Django and React, aligned with the founder's business goals.
- Implemented dynamic product listings, secure payment integration, and improved customer engagement and brand growth.
- Utilized Django Rest Framework to improve system interconnectivity, facilitating smooth integration with third-party services(Djoser). This enhancement broadened service offerings and significantly boosted customer engagement.
- Successfully optimized complex queries for generating invoices in e-commerce system, enhancing data retrieval efficiency and accuracy.
- Integrated Django SimpleJWT for secure token-based authentication, implementing access and refresh token workflows to enhance API security and user session management.
- Configured and customized Djoser for streamlined user registration, activation, password reset, and authentication endpoints, improving development efficiency and maintainability of authentication workflows.

**Web Developer Intern**      **Hanzai | NEP-NIC's KUST Startup**      *Kohat, Pakistan*      **Sept 2022 – Feb 2023**

- Built a responsive React-based portfolio website to enhance the digital presence of Hanzai, a startup focused on teaching Chinese reading and writing to the Pakistani audience in Urdu.
- Developed interactive forms and data collection modules using React (frontend) and Django (backend) to store and manage user information, feedback, and course inquiries securely in a relational database.
- Integrated Django Rest Framework between Django and React to enable smooth data flow, validation, and submission handling, improving backend reliability and frontend responsiveness.

**Management Intern**      **NEP-NIC's KUST**      *Kohat, Pakistan*      **Feb 2022 – Aug 2022**

- Assisted in managing operations for multiple startups under NEP-NIC, supporting communication between founders and management.
- Contributed to event coordination, documentation, and administrative organization, improving internal workflow efficiency.
- Played a key role in maintaining alignment across departments, ensuring smooth execution of NIC's startup support initiatives.

## Education

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**Bachelor of Science**      **KUST, KPK, Pakistan**      *Kohat, Pakistan*      **Sep 2021 – Aug 2025**

- Major in Computer Science

## Projects

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- **Final Year Project — OncoXpert: AI-Powered Multi-Cancer Detection Platform:** **Aug 2025**
  - Engineered the backend for an AI-driven cancer diagnosis and case management system using Django and Django REST Framework (DRF), integrating modules for medical image storage, classification, and ML model communication.
  - Implemented Djoser and SimpleJWT for secure user authentication, token management, and streamlined access control across the platform.
  - Optimized MySQL queries, caching, and pagination to enhance performance and scalability, achieving reduced response latency.
  - Applied request throttling and robust API design principles to ensure system reliability and data security in high-load environments.

## Others

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- **Prime Minister Laptop Scheme 2023:** **Mar 2024**
  - Recipient of Prime Minister's Laptop Scheme 2023 for academic excellence, Government of Pakistan.