

HASSAAN AHMAD

SOFTWARE ENGINEER

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OBJECTIVE

Passionate and meticulous Software Engineer with practical experience in designing and implementing scalable web applications to address real-world challenges. Demonstrated expertise in diagnosing and resolving intricate issues, crafting efficient APIs, and enabling data-informed strategies. A collaborative team player with strong communication skills, committed to delivering top-notch code and innovative solutions. Eager to contribute by creating advanced technologies that seamlessly integrate technical excellence with business value.

EDUCATION

Bachelor of Computer Science

University of Engineering and Technology, Lahore

Oct 2020 - May 2024

PROFESSIONAL EXPERIENCE

Cogent Labs

Backend Engineer

Lahore, Pakistan

June 2024 - Present

- Backend Architecture and Development:** Developed modular and maintainable backend architectures using Django, optimizing performance and scalability to handle high-volume requests and complex business logic.
- Data Pipeline Development:** Implemented scalable data pipelines for real-time data processing, ensuring efficient aggregation and transformation of large datasets for analytical and business insights.
- Performance Improvements:** Enhanced query response times by 80% using TimescaleDB, caching strategies, and raw SQL queries.
- AI Integration:** Integrated machine learning and AI models into backend systems to enhance functionality, providing intelligent automation and data-driven decision-making in various applications.
- Collaboration:** Partnered with cross-functional teams for requirements gathering, client interactions, and system design.
- Scalability and Deployment:** Built scalable applications serving real-time users. Deployed projects on AWS using Docker, ensuring robust and efficient infrastructure.
- Code Quality:** Updated utilities to align with Python PEP 8, focusing on clean, maintainable, and high-performance code.
- Tech Stacks:** Python, Django, MySQL, PostgreSQL, TimescaleDB, Django-channels, Docker, AWS.

Apex Space

Software Engineer

Lahore, Pakistan

Jan 2023 - Oct 2023

- Web Application Development:** Designed and developed web pages for diverse web applications, ensuring seamless functionality and user experience.
- E-commerce and Business Platform Expertise:** Contributed to the development of E-commerce and business platform websites, focusing on performance and scalability.
- Full-Stack Design and Implementation:** Specialized in creating responsive front-end designs and developing scalable back-end systems to meet dynamic user needs.
- Technology Integration and Trend Adaptation:** Explored and implemented new technologies and market trends to enhance project outcomes and maintain relevance in the evolving tech landscape.
- Tech Stacks:** Python, Django, PostgreSQL, React.

PROJECTS

University Service Portal

- **Centralized Information:** Combines scattered university data into one platform, simplifying access for students, faculty, and staff.
- **Streamlined Processes:** Automates and simplifies tasks like course registration, fee payments, and document submissions, reducing inefficiencies.
- **API Integration:** Real-time updates and seamless third-party service integration.
- **Enhanced User Experience:** Focuses on a simple, intuitive, and fast interface for users of all tech skill levels.
- **Resource Optimization:** Reduces manual workloads, allowing departments to focus on high-value tasks.
- **Improved Collaboration:** Encourages better communication and coordination among departments for seamless service delivery.
- **Institutional Reputation:** Reflects innovation and service excellence, boosting the university's image.
- **Efficiency and Effectiveness:** Enhances operational performance across all university services, benefiting all users.
- **Tech Stack:** MERN Stack

Technical Skills

- **Languages:** Python, JavaScript, TypeScript
- **Frameworks and Libraries:** Django, Scrapy,
- **Backend and APIs:** REST APIs, Webhooks
- **DevOps and Cloud:** AWS, Docker, Firebase
- **Databases:** PostgreSQL, MySQL, MongoDB

ACHEIVEMENTS

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|---|---------------------|
| • Participated in Google cloud Program. | Sept-2021 |
| • Contribute in Hacktoberfest Program. | Oct-2022 |
| • Student Ambassdor at Cogent Labs. | Jan-2023 - Jan 2024 |

LEADERSHIP EXPERIENCE

President, BDS UET-New Campus

Sep 2023 – May 2024

- Lead the BDS student chapter, organizing events, workshops, and competitions for student development and knowledge enhancement for benefits and need of donating blood.
- Managed and mentored teams, focusing on personal and professional growth.

Treasurer, BDS UET-New Campus

Oct 2022 – Jun 2023

- Managed event finances, coordination, and billings for BDS events at the university.
- Worked closely with team members to ensure the success of the event, focusing on quality and impact.