# SHOAIB UL HAQ
## COMPUTER SYSTEMS ENGINEER

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 shoaibulhaque   shoaibulhaque

**Computer Systems Engineer** with a passion for software engineering and a strong foundation in programming. Eager to design scalable systems and thrive in dynamic environments by rapidly acquiring new skills and adapting to evolving challenges.

## EDUCATION

**Ned University Of Engineering And Technology**  —  **2021 - 2025**
*BE (Bachelors of Engineering) in Computer And Information Systems (CIS) Engineering*  —  *CGPA: 3.48/4.000*

**Adamjee Govt. Science College**  —  **2019 - 2021**
*Intermediate (Pre-Engineering)*  —  *Grade : A+*

## EXPERIENCE

**Research Project Member - Neurocomputation Lab - NED**  —  **Sep 2024 - May 2025**

- Achieved **>88% mAP** in real-time Urdu Sign Language alphabet recognition using YOLOv8n & YOLO-NAS.
- Built a robust system handling signing variations and multi-sign detection with a Streamlit & OpenCV front-end.
- Engineered and validated lightweight **ONNX** models for efficient mobile/edge deployment.

**IT Intern - Karachi Development Authority (KDA)**  —  **Mar 2024 - April 2024**

- Gained exposure to public-sector IT systems and their operational environment.
- Observed fundamental IT support and maintenance activities.

**Machine Learning Intern - Neurocomputation Lab - NED**  —  **Sep 2023 - Oct 2023**

- Applied Generative Adversarial Networks (GANs) to augment datasets for Diabetic Retinopathy classification.
- Increased dataset size and diversity to improve model generalization and training performance.
- Explored and compared multiple GAN architectures for medical image synthesis and quality evaluation.

## PROJECTS

**AI Code Reviewer**

- Developed an AI-powered code reviewer web application using the MERN stack (React, Node.js, Express, MongoDB), integrating Deepseek R1 and Groq API for ultra-fast AI responses.

**TaskMate AI**

- Full-stack MERN application featuring real-time task collaboration with Socket.io, JWT authentication, and integrated AI assistant using Groq API and LangChain for intelligent productivity recommendations.

**ResearchAI - Company Research Platform**

- Built an AI research platform with CrewAI multi-agent system, Next.js, and Flask to auto-analyze company leadership content. Added real-time job tracking, async processing, and a TypeScript frontend.

**Marketly - Django Marketplace Platform**

- Built a Django-based e-commerce marketplace with user auth, category filtering, search, image uploads, and personalized dashboards using a modular app architecture.

**AI-Powered News Summarization Platform**

- Full-stack application combining web search, AI summarization (LangChain + Groq), and text-to-speech (ElevenLabs) to generate audio news reports. Built with FastAPI, React/TypeScript, featuring asynchronous processing and modern responsive UI

## ACHIEVEMENTS

**Secured NEDAASC Award for Final Year Project (FYP)**  —  **Sep 2024 - May 2025**

- Awarded for FYP on 'Sign Language Translation', among 31 selected from 300 for tech innovation & social impact.

## CERTIFICATIONS

- Python Essentials - **CISCO**
- Python for AI & Development - **IBM**
- Javascript- **FreeCodeCamp**
- MERN - **Udemy**

## SKILLS & TOOLS

**Frontend**:  React, HTML, CSS, Tailwind CSS, DaisyUI, Flowbite, JavaScript
**Backend**:  Node.js, Express.js, Django, FastAPI, Flask, LangChain, CrewAI
**Databases**: MongoDB, MySQL, PostgreSQL, SQL
**Languages**: Python, JavaScript (also familiar with Typescript, Java and C/C++)
**Other:**  Git, GitHub, Jira, Docker