

# Syed Ali Hasnain

DHA Phase 2 Islamabad, Pakistan

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## EDUCATION

**National University of Computer & Emerging Sciences (NUCES), FAST**

Sep 2020-Jan 2025

Graduated- Bachelor of Science in *Software Engineering*

## EXPERIENCE

### Full Stack Developer & QA

Connect For Tech

Dates of Starting: October, 2023 – Present

- Developed an insurance management system using HTML, CSS, JavaScript, PHP, and MySQL. Integrated custom formulas and Dompdf for generating PDFs compatible with pre-designed templates, ensuring a responsive and user-friendly experience.
- Developed an invoice management system with multi-company support using HTML, CSS, JavaScript, PHP, and MySQL. Ensured each user sees only their specific data, providing a secure and customized experience for multiple businesses.
- Developed a property management system enabling admins to add properties and flats, manage payments, and oversee operations efficiently.
- Developed a Bill management system with multi-company support using HTML, CSS, JavaScript, PHP, and MySQL. Ensured each user sees only their specific data, providing a secure and customized experience for multiple businesses.
- **QA Responsibilities:** Created comprehensive **use cases** and leveraged tools like **Selenium** for automated testing and **JMeter** for performance testing to ensure system reliability and efficiency.

### Software Developer Onsite Internship

Ali Brothers Enterprises, Islamabad

May, 2023 – June, 2023

- Developed an Inventory Management System for a mart using C#, .NET, SQL Server Management Studio, and Crystal Reports.
- Integrated QR scanners for efficient CRUD operations, simplifying inventory tracking and updates.
- Enabled allocation of items across different stores, ensuring centralized control and smooth operations.
- Utilized Crystal Reports to generate detailed, printable inventory documents for accurate stock records.
- Provided a user-friendly interface for admins to manage inventory efficiently across multiple locations.
- Ensured real-time updates and accurate data handling for seamless store operations.

## Projects

### Smart Underage Driver Detector | Final Year Project

Sep 2023- Present

Supervisor: Dr. Qasim Jan [*Associate Professor, Department of Computer Science, Fast NUCES*]

- Collected a diverse dataset of driver images captured outside vehicles, incorporating various age groups, angles, distances, and lighting conditions.
- Implementing YOLOv3 to detect and localize the driver's side.
- Extracting and isolating the driver's face for precise analysis.
- Developing a binary age prediction model to identify underage drivers (Convolutional Neural Network).

### Multilabel Classification Problem of Yeast DNA Sequences using RNN

August 2024 - Present

Supervisor: Dr. Waqas Ali [*Associate Professor, Department of Computer Science, Fast NUCES*]

- Utilized Jupyter Notebook, Python, TensorFlow/Keras, and Biopython for DNA sequence analysis and classification.
- Mapped DNA sequences to multiple classes and implemented label encoding for classification tasks.
- Training and evaluating models using Recurrent Neural Networks (RNN) and K-Nearest Neighbors (KNN).

**Face Recognition Voting System**

Sep 2022- Dec 2022

Supervisor: Dr. Musadaq Mansoor & Engr. Khurram Shehzad [*Instructor, Department of Computer Science, Fast NUCES*]

- **Tools:** C#, .Net framework, SQL Server Management System, OpenCV
- Gathered requirements and created SRS and SDD for the elicitation and design phase.
- Designed UI/UX with wireframes using Figma and developed software using C# .Net in Microsoft Visual Studio.
- Reset Password through email verification
- Registering voters with their face images from all sides
- Verifying voters identity through face recognition and caste their vote

**Car Parking Management System**

Oct 2021-Nov 2021

Supervisor: Dr. Taimoor Khan [*Professor, Department of Computer Science, Fast NUCES*]

- **Tools:** Java, MySQL
- Register members and make car entries.
- Find free slots and make suggestions for new vehicles.
- CRUD operation on member's information.

**Car Parking Management System using .Net Framework**

Sep 2022- Dec 2022

Supervisor: Mr. Usman [*Instructor, Department of Computer Science, Fast NUCES*]

- **Tools:** C#, .Net framework, SQL Server Management System
- Admin can reset password through email verification
- Manage entry and exit of vehicle according to its number plate
- Admin can create users, manage expense and print data
- User can only manage entries of vehicle

**Accounts Management System**

Oct 2021-Nov 2021

Supervisor: Dr. Ihsan Ullah [*Assistant Professor, Department of Science and Humanities, Fast NUCES*]

- **Tools:** Python, MySQL
- Login and data entries of debit credit
- Generate Income statement

**SKILLS**

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**Language:** English, Urdu, Pashto, Persian

**Courses:** Operation Research, Database, AI

**Technical:** Machine Learning, Web Development, Desktop Application, Reengineering , Architecture design, Artificial Intelligence, Quality Assurance

**Languages:** Python, C/C++, C#, Java, SQL, JavaScript, PHP, MongoDB

**Frameworks:** .Net, PyTorch, TensorFlow, Selenium, Jmeter

**Tools:** VS Code, Figma, Git, Github, XAMPP,

**NOTABLE ACHIEVEMENT**

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- Final Year Project was funded out of 28,000 projects by IGNITE Pakistan.

**INTERESTS**

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- Programming
- Leadership
- Problem-Solving
- Leadership
- Teamwork and Collaboration
- Adaptability and Learning
- Time Management and Organization

- Teaching
- Communication