

# Syeda Batool Fatima

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Havelian, Khyber Pakhtunkhwa, Pakistan

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GitHub: <https://github.com/Batoolsyedaz>

Portfolio: [syeda-batool-portfolio.vercel.app](https://syeda-batool-portfolio.vercel.app)

## PROFESSIONAL SUMMARY

Software Engineer with expertise in full-stack web and mobile development, database management, and AI/ML integration. Proficient in React.js, Next.js, React Native, Node.js, Python, and SQL with experience in building scalable, secure, and user-focused applications. Skilled in machine learning model integration, REST API development, cloud deployment (Firebase, Vercel), and CI/CD pipelines (GitHub Actions). Strong background in debugging, troubleshooting, and performance optimization with proven ability to deliver high-quality solutions in Agile/Scrum environments.

## SKILLS

- Programming Languages: JavaScript, Python, Java, C++, SQL, HTML, CSS
- Web & Mobile Development: : React.js, Next.js, React Native, Node.js, Express.js, Redux, Firebase, REST APIs, Bootstrap, Tailwind CSS
- Databases & Cloud: MongoDB, MySQL, Firebase, Vercel
- Machine Learning & Data Science: Scikit-learn, TensorFlow, ResNet50, OpenCV, Pandas, NumPy, Matplotlib, Google Colab, Jupyter Notebook, Data Preprocessing, Model Evaluation
- Testing & QA: Unit Testing, Integration Testing, Jest, Selenium, Sikuli, Postman, Manual Testing, Automated Testing
- Tools & Platforms: Git, GitHub, GitHub Actions, VS Code, Figma, Canva
- Methodologies & Soft Skills: Agile/Scrum, Problem Solving, Team Collaboration, Communication, Time Management

## EDUCATION

**Bachelor of Science in Software Engineering**

2021–2025

COMSATS University Islamabad, Abbottabad Campus

**CGPA: 3.74/4.00 (A1)**

*Final Year Project: Nephronyx – Kidney Disease Detection & Patient Management System*

Built full-stack web app for kidney disease detection using CT scans.

Built ResNet50-based model achieving 94.5% accuracy in kidney disease classification.

Developed role-based dashboards, appointment scheduling, and report generation.

### **FSc–Intermediate in Computer Science**

*Sir Syed Public School and College Sultanpur Havelian*

2019 – 2021

**Marks: 904/1100 (A1)**

### **Matric in Science**

*Sir Syed Public School and College Sultanpur Havelian*

2017 – 2019

**Marks: 939/1100 (A1)**

## **VOLUNTEER EXPERIENCE**

Independent Learning & Projects

Mar 2021– Present

Built full-stack web/mobile apps (React, React Native, Firebase), UI/UX design (Figma, Canva), CI/CD pipelines (GitHub Actions), and ML experiments (Scikit-learn, Pandas, Google Colab)

## **PROJECTS**

- **AI-Powered Kidney Disease Detection Web App:** Developed a **Flask + ResNet-50** web app achieving **94% CT scan classification accuracy**, implemented a **role-based dashboards** and **appointment scheduling**.
- **StudyHub:** Built a **full-stack React.js application** with **Node.js, Express.js, MongoDB, and Tailwind CSS** for **course tracking, assignment management, and grade monitoring**, enhancing **student workflow efficiency**.
- **MarketPro:** Designed a **responsive React.js marketplace UI** with **dynamic dashboards, product listings, and sales tracking**, optimizing **user engagement and performance metrics**.
- **AI Helper (AI Chatbot):** Created an **interactive AI chatbot frontend** using **React.js**, featuring **real-time messaging, dynamic recommendations, and conversational UI**, improving **user experience and interaction**.
- **Beauty Diary:** Built a **React.js / React Native UI** to track **skincare routines**, integrating **forms, calendars, and progress trackers** for a smooth user experience.

## **AWARDS & CERTIFICATIONS**

- Award of Campus Honor Roll from COMSATS University Islamabad Abbottabad Campus (Spring 2024) – Awarded for ranking among top students.
- Certificate of Highest Achievers Award in Fsc – 2021
- Graphic Designing, NS Training (SMC-Private) Limited – 2023

## **LANGUAGES**

English – Professional Proficiency

Urdu – Native

## REFERENCES

References available upon request.