

Junaid Ali Bhatti

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About Me

I am an AI and full-stack developer with 2+ years of experience, specializing in web development and machine learning. I blend cutting-edge AI with robust code to create impactful solutions. My expertise includes crafting seamless web applications and analyzing satellite data.

Work Experience

Software Engineer – Smart A and I Solutions PVT Ltd, Gulberg, Lahore *Sep 2025 – Present*

- Developing intelligent web applications using **Next.js** (frontend) and **FastAPI** (backend) for scalable, high-performance solutions.
- Integrating and orchestrating **LLMs** and **AI Agents** through **LangGraph** to build adaptive, context-aware systems.

Software Developer – Vital Green PVT Ltd, Gulberg, Lahore *Jan 2023 – Aug 2025*

- Leading the transformation of **CropSight** into a practical agriculture monitoring tool.
- Key responsibilities include front-end web app development, deploying applications on Ubuntu servers, maintaining server performance, and automating tasks using shell scripting.

Full Stack Developer – Logic Finder, Reston, Virginia, US *Mar 2025 – June 2025*

- Developed and optimized **Network Fort**, a cybersecurity dashboard, using **Next.js** and **SSE** for real-time threat visualization.
- Designed secure **REST APIs** with **Elasticsearch** integration to enhance threat detection efficiency.

Lab Engineer – University of Management and Technology (UMT), Lahore *June 2024 – July 2025*

- Conducted labs for programming and modern tech trends within the School of Systems and Technology.

Research Associate – COMSATS University Islamabad, Lahore Campus *Feb 2024 – June 2025*

- Conducting lab sessions for C++ Programming, Operating Systems, and AI.
- Guiding students in innovative projects and research initiatives.

Education

Master of Science in Computer Science (MSCS)
COMSATS University Islamabad, Lahore Campus *2024 – Present*

Bachelor of Science in Computer Science (BSCS)
COMSATS University Islamabad, Lahore Campus *2020 – 2024*

Skills

Programming: Python, C/C++, Bash, JavaScript, TypeScript, SQL, Assembly Language

Web Development: ReactJS, NextJS, Django, Tailwind CSS, SCSS

Tools: Google Earth Engine, Matlab, Sentinel Hub, AutoDesk Maya

Specializations: Machine Learning, Computer Vision, GANs, Image Processing

Projects

CropSight *Feb 2023 – Aug 2025*

Technologies: NextJs, Django, MongoDB, Google Earth Engine, Typescript

Project Link: Satellite-based system to analyze crop health and optimize agricultural resources.

Kidney Stone Detection *Oct 2022 – Dec 2022*

Technologies: CNN, SVM+HOG, Gradio, Tkinter

Project Link: Designed a CT image analysis system using CNNs to detect kidney stones.

NFT Arena

Oct 2023 – Jan 2024

Technologies: NextJs, Typescript, Tailwind, Solidity, IPFS, Ethereum

[Project Link](#): Built a decentralized NFT marketplace.

Symptoms Sense

Oct 2023 – Jan 2024

Technologies: NextJs, LangChain, OpenAI, Pinecone, Typescript

[Project Link](#): Developed an AI-powered symptom checker.

TEDx COMSATS Website

Nov 2023 – Dec 2023

Technologies: NextJs 14, Typescript

[Project Link](#): Designed and implemented the official event website.

Volunteering

TEDx COMSATS Lahore 2024

2024

Collaborated with the TEDx COMSATS 2024 team as a dedicated volunteer, contributing to the success of the event. Played a pivotal role in the Web and IT team, taking charge of designing and developing the official event website.

COMSATS IDOL 2023

2023

Served as a dedicated volunteer in the Registration Team for the COMSATS Idol event during the Student Week Fall 2023 organized by CMS (COMSATS Music Society). Played a key role in facilitating smooth event registration processes, ensuring a positive experience for participants and attendees.

Certifications

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|---|--------------------------|
| • Artificial Intelligence Developer (PIAIC) | <i>10/2022 – 05/2024</i> |
| • Create Machine Learning Models in Microsoft Azure | <i>10/2023 – 11/2023</i> |
| • Introduction to Cloud Computing | <i>12/2022 – 02/2023</i> |
| • Developing Front-End Apps with React | <i>10/2023 – 11/2023</i> |
| • Getting Started with Git and GitHub | <i>03/2023 – 04/2023</i> |
| • AI For Everyone | <i>06/2022 – 07/2022</i> |
| • Web Application Development with JavaScript and MongoDB | <i>03/2023 – 04/2023</i> |

Languages

English: Fluent

Urdu: Native

Punjabi: Bilingual