Hamza Saeed

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CS graduate (FAST NUCES, 2025) with 2+ years of experience across full-stack development and applied machine learning. Proficient in React, Next.js, Node.js, Python, and TypeScript, with production experience building web applications, computer vision systems, and LLM-powered tools.

EDUCATION

FAST NUCES · Bachelor of Computer Science *2021 – 2025*

EXPERIENCE

SmartForum · Frontend Apprentice *Feb 2026 – Present*

- Getting up to speed on a large-scale React and Next.js forum codebase through structured technical training.
- Reviewing existing frontend components and REST API integrations ahead of upcoming feature development work.
- Learning the team's code review, version control, and cross-device consistency practices through day-to-day collaboration.

SALUQ · Computer Vision Intern *July 2024 – Sept 2024*

- Built a football analytics tracker in YOLOv8 and OpenCV that hit 94% accuracy detecting players, referees, and the ball across live match footage.
- Cleaned and structured large positional and temporal datasets for use in player movement and performance analysis models.
- Packaged tracking output into a lightweight dashboard so coaching staff could review match data without touching raw model files.

PTCL · Frontend Intern *June 2023 – Aug 2023*

- Built a MERN web application for internal service management with reusable React components wired to a Node.js/Express backend.
- Shipped features alongside backend and QA teams, picking up code review and version control practices in a larger org.

PROJECTS

Interview-Den (FYP) · *Next.js · Supabase · Groq LLM · LangChain · Docker* GitHub ↗

- Automated hiring platform with resume screening, adaptive quizzes, and avatar-led video interviews, containerized with Docker for consistent deployment.
- Used Groq LLM and LangChain for dynamic interview conversations, with Supabase managing candidate data and session state.

News-Data-Pipeline · *Python · Apache Airflow · MLflow · FastAPI · Docker* GitHub ↗

- MLOps pipeline using Apache Airflow to orchestrate news ingestion, preprocessing, and model training as automated DAGs.
- Tracked experiments with MLflow and wrapped inference in a FastAPI service; cut model deployment time by 40%.

Credit-Risk-Predictor · *Python · Scikit-learn · Streamlit · Jupyter* GitHub ↗

- Streamlit app for real-time credit risk assessment: enter applicant financials and get an instant ML-powered risk score.
- Trained and compared multiple classifiers; deployed the best-performing model behind a clean interactive UI.

Housing-Society-Management · *MongoDB · Express · React · Node.js* GitHub ↗

- Full-stack MERN app with portals for residents, tenants, and admins, covering property search, payments, and role-based dashboards.
- Includes JWT auth, real-time WebSocket notifications, and a mobile-responsive UI.

SKILLS

Languages & Frameworks: Python, JavaScript, TypeScript, C++, React, Next.js, Node.js, Express, HTML/CSS, SQL

AI / ML: PyTorch, TensorFlow, Hugging Face, LangChain, MLflow, OpenCV, YOLOv8, Scikit-learn

Tools & Infrastructure: Docker, AWS, Apache Airflow, GitHub Actions, REST APIs, Supabase, FastAPI, Streamlit

Languages: English (Fluent) · Urdu (Native)