Ubaid Ur Rehman

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Summary

I am Ubaid, a Computer Science student with a strong foundation in AI, web development, and software engineering. Experienced in building AI-driven applications, full-stack web solutions using Next.js, TypeScript, Django, and optimizing React-Redux state management. Passionate about scalable software design, problem-solving, and leveraging AI for innovative solutions.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology Sep 2022 - Present
Bachelor's · Computer Science · Swabi, Pakistan 3.07 CGPA

Pursuing a Bachelor's in Computer Science on a full merit-based scholarship at GIKI.

Experience

Saynt AI | Saynt AI Jun 2024 - Present
Full Stack Developer · Developer · Full-time Karachi, Pakistan

- Designed and developed responsive web applications using **React.js**, **Next.js**, and **Tailwind CSS**, ensuring mobile-first, cross-browser compatibility.
- Built RESTful APIs using **Django**, enabling efficient backend communication and third-party integrations.
- Managed state and data flow in complex frontends using **Redux**, and **React Query**.
- Implemented secure authentication and authorization using **JWT**, **OAuth**, and **Session-based** mechanisms.
- Developed and maintained scalable database schemas with **PostgreSQL**, and **MongoDB**, using ORM tools like **Prisma**.
- Deployed and monitored applications using **Docker**, **Nginx**, **AWS EC2**, and **S3**, achieving high uptime and low latency.
- Collaborated closely with UI/UX designers to convert Figma designs into pixel-perfect components.
- Used **Socket.IO** and **WebSockets** to build real-time features like chat, notifications, and live updates.

Projects

Implementation of CLM for Market Basket Analysis | Project Repository Dec 2023 - Jan 2024
University Professor · C++ Data Structures and Algorithm

- Developed an **MFI (Maximum Frequent Itemset)** mining algorithm using **Completely Linked Matrix (CLM)** to optimize Market Basket Analysis
- Implemented a graph-based approach to extract **3-item frequent itemsets (3-FI)** and MFIs, with ongoing enhancements for larger itemsets.

Plant Disease Analysis using Kmeans Dec 2024 - Jan 2025
Project Team · Python, Numpy, Sklearn, Matplotlib, PIL Machine Learning

- Implemented **SVM** and **Boosting** techniques to classify plant diseases with high accuracy.
- Built a web-based interface for users to upload leaf images and receive real-time disease classification.
- Developed using **Python**, **TensorFlow/PyTorch**, **OpenCV**, and **Streamlit** for an interactive UI.

Skills

Programming Languages: C, C++, Python, JavaScript/TypeScript
Languages and Frameworks: React.js, Next.js, Django, TensorFlow, PyTorch, OpenCV, Streamlit
Tools and Technologies: Docker, AWS (EC2, S3), Git, Prisma, PostgreSQL, MongoDB
Domain Knowledge: OOP, DSA, ML, Parallel Computing, Real-time Systems

Languages

English [Professional Working Proficiency], Urdu [Native Proficiency]

Links

GitHub, LinkedIn