

Dawood Rehman

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Professional Summary

Aspiring Computer Scientist and passionate research lover with a strong foundation in Artificial Intelligence/Machine Learning, DevOps, IoT, and Cybersecurity. Proven dependability with experience in managing and organizing social and technical events as President of the ACM student chapter. Eager to apply a versatile skill set, including Python, C++, and cloud infrastructure tools, to solve complex problems and contribute to innovative tech solutions.

Certifications & Research Awards

- **Certifications:** CCEP Red Team ,AI/ML Fast ,Ass Data Eng Sql Data CAmp
- **Research:** 2nd Place, DURS Habib Research Symposium,Pulse Whisper

Professional Experience

Pulse Whisper

- Writing Research paper and developing product for cardiac heart monitoring

AI/ML | ESSPL

- Databases ,Ag boost models to automate data entries
- Gained hands-on experience in deploying and maintaining machine learning models in a production environment.

Research and Development Intern | Mazik Global

- Contributed to the development of "Clinic Connect," a real-time, AI-powered chat-based application for booking medical appointments.
- Assisted in designing and implementing core features for a seamless user experience.

Project

MedLens — Cardiac Signal ML Platform

Built an end-to-end ECG/PCG ML web app using **React** with **PyTorch** classification & anomaly detection, **JWT auth/RBAC**, **PostgreSQL + MongoDB** storage, **Docker/Kubernetes** deployment, and observability.

Pulse-Whisper (Final Year Project)

- Developing a research-based system for remote cardiac monitoring that converts Phonocardiogram (PCG) signals to Electrocardiogram (ECG) using mathematical modeling and machine learning.

- Aimed to provide accessible and low-cost cardiac diagnostics for remote patients.

NASA Space Apps Challenge 2025 — “A World Away: Hunting for Exoplanets with AI”

- Developed a robust, bias-aware AI pipeline to detect potential exoplanets and flag anomalous stellar phenomena from Kepler/TESS/TOI/TCE catalogs.
- My contributions included team management, exploratory data analysis (EDA), data preprocessing, comparative model evaluation, and developing anomaly detection algorithms for novel exoplanet identification.
- Leveraged an ensemble of models (Random Forest, XGBoost, SVM) fused with physics-informed deep learning (CNN, CNN-LSTM, PINN).

Share Here App

- Built and deployed a LAN-based file-sharing application.
- Implemented a full CI/CD pipeline for automated testing and deployment, ensuring robust and efficient updates.

Vibration to RPM Converter

- Engineered a device using a Raspberry Pi 4, ADXL375 accelerometer, and LSA249 to transform vibrational signals into Revolutions Per Minute (RPM).
- Utilized vector transformation and linear scaling algorithms to process sensor data and provide live graphical representations of RPM.

Skills

- **Technical Skills:** Python (ML/DL Frameworks, Agentic AI, Pandas, NumPy, keras, sci-kit learn, lilm, rag), C++, Terraform, Docker, Amazon EC2, SQL, AWS IoT Core, JavaScript, HTML, CSS
- **Soft Skills:** Leadership, Team Collaboration, Conflict Resolution, Communication, Problem-Solving, Adaptability, Public Speaking, Research Writing

Leadership & Extracurricular Roles

President, ACM SHU Chapter

- Led the university's chapter of the Association for Computing Machinery, organizing technical workshops, seminars, and networking events for students.

Ambassador & Head, Social Welfare | Youth Intelligentsia

- Co-managed social welfare initiatives, promoting community engagement and youth development projects.

Academic Teacher

- Provided academic support and instruction to fellow students, clarifying complex technical concepts

Education

Salim Habib University | Karachi, Pakistan

Bachelor of Science in Computer Science

Honors: Dean's Honor List, Merit-Based Scholarship.

References available upon request.