

MOHD AZHAN UMAR KAMIL

Department of Computer Engineering

Aligarh Muslim University

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Education

Aligarh Muslim University

4-year B.Tech Program (Computer Engineering) - **8.61/10** (Upto 5th Semester)

August 2020 – August 2024

Aligarh, India

Aligarh Muslim University

Senior Secondary School Examination (Class XII)- 80/100

August 2017 – August 2019

Aligarh, India

Aligarh Muslim University

Secondary School Examination (Class X)- 9.6/10

August 2016– August 2017

Aligarh, India

Experience

APJ Abdul Kalam STEM Education and Research Center, AMU and Ohio State University (OSU) [🔗](#)

Developed "IOT Based Health Monitoring System" [🔗](#)

November 2022– May 2023

Undergraduate Researcher

- Developed a patient monitoring app on Flutter & Firebase, integrating MLX90614 temperature sensor, pulse sensor, and AD8232 ECG Sensor to Microcontroller NodeMCU. Enabled real-time health tracking and analysis, enhancing patient care.
- Implemented seamless sensor integration within the app, ensuring accurate and timely data collection, resulting in optimized patient monitoring and improved healthcare outcomes.

SSAMUSAT [🔗](#)

Developed "Dashboard for Satellite Telemetry" [🔗](#)

November 2022– Present

Ground Station Lead

- Leading college satellite project's Ground Station GUI using Firebase, Grafana. Seeking Satnogs support for real-time telemetry, ensuring mission success.

Projects

Unscramblewords App [🔗](#)

Personal Project

- Designed and developed a captivating Unscramble Words game app using Java. Published on Google Play, the app challenges users to unravel jumbled words, enhancing their vocabulary and cognitive skills.

NOAA Satellite Signal Decoding [🔗](#)

Minor Project

- Developed Python-based system for decoding NOAA Satellite signals and receiving them through V-dipole antenna and RTL-SDR. Enables amateur radio enthusiasts and weather enthusiasts to gather high-resolution weather satellite imagery for monitoring weather conditions and climate research.

Technical Skills

- | | | | | |
|-------|----------|--------------|------------|--------------|
| · C | · JAVA | · Javascript | · Flutter | · Networking |
| · C++ | · Python | · HTML CSS | · Firebase | · Grafana |

Achievements

1. Secured an All India Rank 95 in AMU Engineering Entrance Exam (AMUEEE), 2020.
2. Selected in 'Research Experience for Undergraduates' (REU) Program of the APJ Abdul Kalam STEM Education and Research Center of AMU and Ohio State University (OSU).

Volunteer Experience

Co-Coordinator Web Development

2022-2023

IEEE Student Branch, AMU, Aligarh

Volunteer

2022-Present

NSS (National Service Scheme) government sector public service program.

Volunteer

2023

IEEE PIECON Conference., AMU, Aligarh

Publication

”Deep-Learning based Efficient Detection of COVID-19.” [!\[\]\(6a9b39b98eb945faa14c645ec99e4eaa_img.jpg\)](#)