

ABU BAKKAR SIDDIQUE EMON

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SUMMARY

Passionate IoT and Robotics Engineer with a strong background in AI, ML, and embedded systems. Skilled in Python, C, C++, Java, TensorFlow, PyTorch, OpenCV, and IoT platforms like Thingspeak, Arduino, and Raspberry Pi. Experienced in Machine Learning, Deep Learning, Computer Vision, NLP, as well as Web and App Development. Excellent problem-solving, research, and collaboration skills. Seeking opportunities to develop innovative IoT and AI-driven solutions that make a real-world impact.

TECHNICAL SKILLS

Programming Languages: Python, C++, C, Java, SQL, PHP

Machine Learning Frameworks: TensorFlow, PyTorch, Keras, Caffe

Libraries & Tools: NumPy, Pandas, Scikit-learn, OpenCV, NLTK, Git, Docker

Web Development: Html, CSS, JavaScript, PHP, MySQL, WordPress, FullStack

App Development: Java, Flutter, Kotlin, XML, PHP, MySQL, Amazon App Developer

Computer Networking: Cisco Packet Tracer

PROJECTS

sign language detection with python and scikit learn

Machine Learning Project

Jan 2025 – Present

Python, TensorFlow, Computer Vision, OpenCV

- Developed an end-to-end system for sign language detection
- Utilized American Sign Language ASL
- Easy Hand Sign Detection

Online Store E-Commerce Websites

Websites: lunarstock.blogspot.com

Jan 2025 – Present

Amazon Premium Blogger Template

- Customize amazon premium blogger template with html, css, javascript , xml
- Design 3D MOCKUP Book Cover Page with Canva.com and diybookcovers.com
- Topmate Payment getaway to Buy the Digital Products
- Live Project Link

School Management System

Web app

Aug 2024 – Dec 2024

HTML, CSS, JavaScript, PHP, MySQL

- Built a Fullstack School Management System Web App
- Hosted on Liver Server , Frontend: Html, CSS , JavaScript , Backend: PHP , MySQL
- Live Project Link

News Paper Websites

WordPress websites

Jan 2024 – Aug 2024

Plugin, News Portal Theme

- Live Server Hosted fully functional News websites
- Elementor, News Portal Theme
- Live Project Link

3D Aircraft Design

Engineering Drawing

Jan 2024 – Aug 2024

Blender , Autocad

- 3D Model of Aircraft
- Blender Loop Cut, Texture Paint and Animation
- Live Project Link

EXPERIENCE

Drone Development

Drone Developer

Aug 2024 – Jan 2025

BDU Gazipur, DHAKA

- Developing Aero-Rescue UAV for disaster rescue with autonomous navigation, GPS, and thermal imaging
- Focusing on sensor fusion, live video streaming, and remote communication
- Skilled in UAV design, flight control, Python, C++, OpenCV, and TensorFlow.

App Developer on Amazon AppStore

Android App Developer with Java

June 2024 – Dec 2024

Dhaka, Bangladesh

- Developed and published apps on the Amazon Appstore under devemon.com
- Successfully launched Online Tools App, Namata App, Calculator App on the Amazon Appstore.
- compliance with Amazon's app submission guidelines, resulting in smooth approvals and timely launches
- Increased app revenue through strategic AdMob ad placements while maintaining a positive user experience

Sub Executive Member of BDU Robotics Club

Web Design and Development

Jan 2024 – May 2024

BDU Gazipur, DHAKA

- Optimized performance and ensured security
- Developed and deployed websites for various purpose
- Collaborated with cross-functional teams to deliver web based solutions

SCHOLARSHIPS AND AWARDS

Shaheed Syed Nazrul Islam Scholarship Mymensingh(2023) -Awarded for outstanding performance in HSC exam and Admission

15 th National Undergraduate Mathematics Olympiad 2024 Achievement(AIUB)-selected in top 10 for the Final Round

EDUCATION

Bangladesh Digital University

B.S.C in IoT and Robotics Engineering

Bangladesh, Dhaka

Aug 2023 – May 2027

Nasirabad Collage, Mymensingh

H.S.C science, GPA 5.00 out of 5.00

Mymensingh, Sador

Aug 2020 – Feb 2022

Monsurpur A.H.T High School, Atpara, Netrokona

S.S.C science, GPA 5.00 out of 5.00

Atpara, Netrokona

Jan 2018 – Feb 2020

CERTIFICATIONS

- Basic Python Certificate
- NASA Space App challenge
- Soft Skills for Employability
- Robotics Course Certificate
- Banglalink Applink Certificate
- Introduction to Machine Learning
- VS Code Udemy Course Certificate
- Hacker Rank Problem Solving Certificate
- AWS Certified Machine Learning - Specialty
- Fundamental Ai Concepts Microsoft Certificate
- Excel Essentials for Workplace Productivity Certificate
- web designer and wordpress theme customization UYLab Certificate
- 15th national undergraduate mathematics olympiad 2024 Certificate of participants
- 15th national undergraduate mathematics olympiad 2024 Certificate of Achievement

REFERENCE

- SUMAN SAHA Chairman Department of IRE Bangladesh Digital University, Mail: suman0001@bdu.ac.bd
- Md. Toukir Ahmed, Lecturer Department of IRE Bangladesh Digital University, Mail: toukir0001@bdu.ac.bd

LINK

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