MD. AL SIAM

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EDUCATION

B.Sc in Computer Science & Engineering   **2017-2022**
Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh
CGPA: **3.27** on a scale of 4.00

WORK EXPERIENCE

Software Engineer at **Enosis Solutions**   **October 2022 – March 2023**
- Developed full-stack web applications with **ASP.NET**, **AngularJS, Javascript** and **MSSQL**
- Performed in-depth analysis, research and development of client's requirements
- Performed analysis to find out the root causes of bugs on existing projects and made stable fixes to them

AI Research Assistant at **MyMedicalHub**   **October 2020 – March 2022**
- Researched **musculoskeletal patterns** and **range of motion** using **Signal Processing Methods**, **Computer Vision,** and **Deep Learning**
- Developed and deployed projects with **Python** and **Django REST Framework** maintaining clean, modularized code and proper software engineering standards
- Developed an angle drawing method with a geometric solution that could resolve the problems of the previously used library-based method and improve performance
- Developed test cases for projects, tested with **Postman** and provided impactful feedback
- Prepared patents for research outcomes and findings

PUBLICATIONS

- Deep Learning Based Air-Writing Recognition with the Choice of Proper Interpolation Technique. Sensors, 21(24), p.8407. (**Q2**, Impact Factor: **3.847**) ⬈
- Gait Recognition with Wearable Sensors using Modified Residual Block-based Lightweight CNN. IEEE Access. (**Q1**, Impact Factor: **3.476**) ⬈

SKILLS

Programming Languages: C/C++, Python, C#, Javascript, Typescript
Frameworks: Django Rest Framework, Tensorflow, Keras, ASP.NET MVC, ASP.NET Web API
Database: MySQL, MSSQL
Software Engineering Tools: Git, GitHub, Sourcetree, Azure, Postman, Jira
Familiar: Java, HTML, CSS, Linux, Latex
Others: Data Structures, Algorithms, Machine Learning, Deep Learning, Computer Vision

PROGRAMMING CONTEST EXPERIENCE

- **8th** at **VU CSE Tech Fest 2019** out of 43 teams ⬈
- **52nd** at **Technocracy 2019, RUET** out of 96 teams ⬈
- **18th** at **RUET GyanJam 2018** out of 48 teams ⬈

PROGRAMMING PROBLEM SOLVING EXPERIENCE

- **950+** problems solved in **CodeForces** (Profile: _siummy)
- **350+** problems solved in **LeetCode** (Profile: _siummy)
- Participated in **150+** rated contests in **CodeForces** (Maximum Rating: **Specialist, 1443**)

ACADEMIC PROJECTS

Realistic Activity Recognition using Sensors with Deep Convolutional Neural Network
A human activity recognition (HAR) model which can efficiently use signals from IoT sensors
like accelerometers, and gyroscopes with proper windowing and data segmentation techniques.
Tools: **Python, Keras, Deep Learning**

Question Answer Website
A question-answer community website with the features of posting questions and answering them on the thread
by different user and option to upvote and downvote on questions
Tools: **HTML, CSS, PHP**

INDEReclarePENDENT COURSEWORKS_____

- Neural Networks and Deep Learning, Coursera ↗
- Structuring Machine Learning Projects, Coursera ↗
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Coursera ↗
- Convolutional Neural Networks, Coursera ↗

VOLUNTEERING EXPERIENCE_____

Member   **March 2017 - October 2022**
RUET Analytical Programming Lab
- Mentored competitive programming, logical thinking and programming problem solving techniques

Assistant Finance Secretary   **April 2018 - May 2019**
RUET Greater Mymensingh Association, RUET
- Worked for fund collection, cost management and event organisation

Organizing Volunteer   **2022**
RUET CSE Fest 2K22 Inter University Programming Contest
- Worked on programming contest management and assurance of proper coding environments on devices

LANGUAGES_____

- **English:** Full Professional Proficiency
- **Bengali:** Native or Bilingual Proficiency