

SHAKIR AHMED

Birth Date: 19 November, 1996

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Github: github.com/ravenwit

EDUCATION

Bachelor of Science | *Physics*

Shahjalal University of Science and Technology

CGPA: 3.40 out of 4.00 (B+)

Total Credit: 146.50

April 2015 – April 2019

Sylhet, Bangladesh

Higher Secondary Certificate | *Science*

Govt. Science College

CGPA: 5.00 out of 5.00 (A+)

2013

Dhaka, Bangladesh

Secondary School Certificate | *Science*

Badshah Faisal Institute

CGPA: 5.00 out of 5.00 (A+)

2011

Dhaka, Bangladesh

WORK EXPERIENCE

Subject Matter Expert

Shikho Technologies Bangladesh Ltd

- Create lesson plan that will include creative ideas and examples to help explain complex concepts.
- Build creative and engaging lesson script.
- Describe the required computer animation and visualization.
- Review lesson scripts.
- Review designs and animations of finalized lessons.

Sep. 2021 – Present

Dhaka, Bangladesh

System Administrator

HEXit

- Administered Linux servers such as Apache, MySQL, DNS, SSH, and FTP.
- Monitored system performance on a regular basis.
- Verified the integrity and availability of all resource such as hardware, module etc.
- Maintained network and system security.
- Designed and deployed network map.
- Identified any possible intrusions to system and took necessary steps to prevent it.
- Mitigated system vulnerabilities.

March 2017 – Sep. 2017

Sylhet, Bangladesh

Assistant Editor

Zero To Infinity monthly science magazine

- Developed story and content ideas according to the publication's style and editorial policy.
- Evaluated submissions from writers.
- Verified facts cited in material for publication.
- Read content and correct spelling, punctuation, and grammatical errors.
- Approved final versions for the mathematics branch - Pi:Zero To Infinity.

Sep. 2014 – December 2015

Dhaka, Bangladesh

PROJECTS AND RESEARCH

Radioactive Waste Disposal in Outer Space

November 2016

The 2017 University Physics Competition

DOI: 10.13140/RG.2.2.32859.41761

On the relativistic dynamics of electromagnetic two body problem | *Python*

Spring 2019

Shahjalal University of Science and Technology

DOI: 10.13140/RG.2.2.13267.22562

Neutrino Oscillation using Wigner Monte Carlo | *Python*

Fall 2019

Shahjalal University of Science and Technology

The macroscopic phenomenon of neutrino oscillation implies that neutrino flavor state is a mixed state of mass eigenstates (ν_a , $a = 1, 2, 3$). This work aims to simulate the propagation of neutrino flavor state by solving the time dependent Schrodinger equation (TDSE) for the mass eigenstates in real time. For this purpose, Wigner Monte Carlo method is used with considering the mass eigenstates to be unmixed, resulting in a non-oscillatory behavior for the neutrino flavor.

CONFERENCES AND PRESENTATIONS

Numerical Analysis of the Dynamics of Two Charged Particles System

February 2019

National Conference on Physics - 2019, University of Dhaka

Dhaka, Bangladesh

DOI: 10.13140/RG.2.2.13267.22562

Simulation of Neutrino Oscillation using Wigner Monte Carlo

March 2020

International Conference on Physics - 2020, Atomic Energy Centre

Dhaka, Bangladesh

TRAINING AND WORKSHOP

8th Workshop on Collaborative Scientific Software Development and Management of Open Source Scientific Packages

Oct. 2021 – Dec. 2021

The Abdus Salam International Centre for Theoretical Physics

Trieste, Italy

HONORS AND AWARDS

Silver Medal

January 2017

The 2016 University Physics Competition

LANGUAGES

Bengali (Native)

English (C1) IELTS overall: 8.0 Listening: 8.5, Reading: 9.0, Writing: 7.0, Speaking: 7.0

SKILLS

Programming: C, C++, Python (NumPy, SciPy, SymPy, Matplotlib, Pandas, Tensorflow, Keras), MATLAB, SageMath

Technical Tools: LaTeX, Git, Vim, PyCharm, MS Visual Studio (C++), MS Office Suite

OS: Windows, Linux (CentOS, Debian, Kali), MacOS

CERTIFICATIONS

Applied Data Science II: Machine Learning and Statistical Analysis (Honors)

Oct. 2021 – Dec. 2021

WorldQuant University

Applied Data Science I: Scientific Computing and Python (Honors)

Jul. 2021 – Sep. 2021

WorldQuant University

Advanced Machine Learning and Signal Processing

Aug. 2020

IBM

Deep Learning Specialization

Jun. 2020

DeepLearning.AI

EXTRA-CURRICULAR AND VOLUNTARY ACTIVITIES

- 9th DBBL- Prothom Alo Bangladesh Physics Olympiad National** 2018
Shahjalal University of Science and Technology Sylhet, Bangladesh
Volunteered for academic team.
- Copernicus Astronomical Memorial of SUST** 2015 – 2017
Shahjalal University of Science and Technology Sylhet, Bangladesh
- Served as IT Secretary in 5th executive committee.
 - Volunteered for World Space Week 2015.
- 6th DBBL- Prothom Alo Bangladesh Physics Olympiad Divisional** 2015
Sylhet International University Sylhet, Bangladesh
Volunteered for academic team.
- Pi - Zero To Infinity** 2014 – 2016
A monthly mathematical magazine Dhaka, Bangladesh
- Served as an Assistant Editor.
 - Contributed articles to the magazine.
- Govt. Science College Science Club** Jan. 2012 – Dec. 2012
Govt. Science College Dhaka, Bangladesh
- Served as IT Secretary.
 - 2nd runner-up in Speed Cubing in Pran Frooto Viqarunnisa Noon 16th Science Festival-2012