

# Md. Safirur Rashid

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93/1, Middle Badda, Comilla Para, Badda, Dhaka-1212

## ABOUT ME

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I am a final year student at the Islamic University of Technology (CSE department). I am a Computer Science student, a Machine Learning and Computer Vision enthusiast. I am also interested in Image processing and Computer Simulated Experiments.

## EDUCATION

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### Islamic University of Technology

*Bachelor of Science in Computer Science and Engineering*

- Current CGPA : 3.62

Boardbazar, Gazipur

*Jan. 2018 – Present(4th Year)*

### Bir Shreshtha Noor Mohammad Public College

*Primary, Secondary and Higher Secondary*

- Higher Secondary Certificate, GPA - 4.92 (Out of 5)
- Secondary School Certificate, GPA - 5 (Out of 5)
- Junior Secondary Certificate, GPA - 4.71 (Out of 5)
- Primary School Certificate, First Class

Peelkhana, Dhaka

*Jan. 2004 – Dec 2016*

## CODING PROJECTS

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### MinuteShazam | *Python, Octave, Numpy, Scipy, Matplotlib, Streamlit*

Feb 2021 – Present

- Collaborated with a team of 3 people.
- Developing a small web app that mimics the primary workflow of the popular music identifying software Shazam.
- Primary research and prototype implementation done with Octave.
- Currently implementing the algorithms in Python and we plan to deploy the app via Streamlit.
- Our GitHub repo: [github.com/5AF1/MinuteShazam](https://github.com/5AF1/MinuteShazam)

### Travelhacks | *Python, Django, Jinja, HTML, CSS, Oracle Database*

July 2020 – Sept 2020

- Collaborated with a team of 3 people.
- Developed a full-stack web app with Django and Oracle on backend with basic HTML and CSS on the frontend
- Created User sign up and log in feature with a user-friendly password recovery system via Gmail.
- Set up User profile pages with profile pictures and added post writing privilege to Signed in users only.
- Used Django superuser features for overlooking posts from backend.
- Deployed our web application on [pythonanywhere.com](https://pythonanywhere.com/travelhacks101.pythonanywhere.com) ([travelhacks101.pythonanywhere.com](https://pythonanywhere.com/travelhacks101.pythonanywhere.com)).
- Our GitHub repo: [github.com/5AF1/travelhacks](https://github.com/5AF1/travelhacks)

### Blood Bank | *Java, Swing, Oracle, PL/SQL*

Sept 2020

- Collaborated with a team of 3 people.
- A blood bank management system for users and admins
- Our GitHub repo: [github.com/5AF1/Blood\\_Bank](https://github.com/5AF1/Blood_Bank)

### Study2Do | *Java, Swing, Oracle, Git*

Sept 2019 – Nov 2019

- Collaborated with a team of 3 people.
- A simple to-do list app on desktop.
- The app stores tasks like (exams, assignments, quizzes) on Calendar and List view.
- Our GitHub repo: [github.com/5AF1/Study2Do](https://github.com/5AF1/Study2Do)

### Minesweeper | *C++*

Oct2018

- Collaborated with a team of 2 people.
- The game was a console remake of the classic minesweeper game.
- Implemented random minefields and recursive flood fill to show empty spots.
- Our GitHub repo: [github.com/5AF1/Minesweeper](https://github.com/5AF1/Minesweeper)

## CERTIFICATIONS

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<b>Deep Learning Specialization</b>   <i>by Deeplearning.ai [Verify]</i>	Nov 22, 2020
<b>Simulation and modeling of natural processes</b>   <i>by University of Geneva [Verify]</i>	May 19, 2020
<b>Machine Learning</b>   <i>by Stanford University [Verify]</i>	Apr 22, 2020

## EXPERIENCE

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<b>Software and Image Processing Team Member</b>	2019 – Present
<i>IUT Mars Rover- Team Avijatrik</i>	<i>Boardbazar, Gazipur</i>
<ul style="list-style-type: none"><li>• Developed a REST API using Flask and MySQL to store data gathered by our rover from field.</li><li>• Developed a basic GUI using PyQt5 for controlling the rover from base.</li><li>• Currently part of the Image Processing team.</li></ul>	

## TECHNICAL SKILLS

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**Languages:** Python, GNU Octave, Julia, LaTeX, C/C++, SQL(Oracle), MySQL, Java, HTML/CSS  
**Libraries:** Pandas, NumPy, Scipy, OpenCV, Matplotlib, Plotly, PyQt5  
**Deep Learning:** PyTorch, PyTorch Lightning, Scikit-Learn, Tensorflow  
**Frameworks:** Streamlit, Django, Flask, Weights and Biases  
**Developer Tools:** VS Code, PyCharm, IntelliJ, Git, GitKraken, GeoGebra, Lyx, Overleaf, Oracle SQL Developer