

# AVIK AREFIN

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GitHub

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## Education

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### **BSc. in Mechatronics Engineering**

Rajshahi University of Engineering & Technology (last semester remaining)

CGPA: 3.73

## Projects

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### **Armor Gold Secure Locker App:**

[Mar 2025 - Present]

Worked for Aethes Corporation, USA, for their Aethes Armor Gold Locker App.

Used Flutter with **GetIt**, as service locator.

Implemented **WebRTC** and **Websocket** for real time video and audio communication the the server and the digital locker

### **Inkspire**

[Feb 2022 - Present]

A cross platform note taking app that bridges the gap between hand written typed text.

Demo available at [avikarefin.github.io](https://avikarefin.github.io)

### **Front End Web Development**

[Feb 2025 - Present]

Launched currently operational web presence for several clubs, organizations and companies:

<https://rupsa.club>, <https://bscf.dev>, <https://logistica4u.com>

### **Cortex-Vision**

[Oct 2023 - Dec 2023]

A Godot-based 3DOF Robotic Arm Controller Software with inverse kinematics and computer vision.

Used **Godot engine** for 3d rendering and 2d controller **HUD**.

Used **Python TCP server** for command protocols and **UDP server** for video feed.

Implemented **Forward Kinematics** with a custom algorithm.

Modeled robotic arms with industry standard software, **Fusion360**.

### **Ptablet**

[Mar 2023 - Sep 2023]

A periodic table app made in flutter – selected as the top ranked project in the university course.

Rendered using **Flutter SDK**.

Implemented **JSON serialization and deserialization** for data retrieval.

Implemented **GetX** for **State management**.

Scrapped web for latest atom related data (images and **CAS** values)

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### Competitions

- 4th Place in the World in the Japan Aerospace Exploration Agency (JAXA) -NASA held, 6th Kibo Robot Programming Challenge (2025) - participated as a member of Cortex Robotics.
- Finalist of the Seeds for the Future Bangladesh 2024 by Huawei; Represented Team Bangladesh in the south pacific region of Tech4Good competition held by Huawei and secured a top 10 position as a team in China.
- 2nd Place in Bangladesh in the Japan Aerospace Exploration Agency (JAXA) -NASA held, 5th Kibo Robot Programming Challenge (2024) - participated as a member of Cortex Robotics.
- Participated in various other university level and national level competitions in both technology and tech-biz competitions, including but not limited to Marico: Over the Wall,

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### Technical Skills

- Dart (Flutter), PyTorch (Python), Git, Gdscript, C,
- Android Studio, VSCode, Godot Engine (Game Engine)
- Basic CAD (Fusion360, AutoDesk AutoCAD)
- Basic Office Suite (Word, Powerpoint, Excel), Canva, Notion, LaTeX

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### Affiliations

- Bangladesh Socio Cultural Forum - <https://bscf.dev>
- Logistica - <https://logistica4u.com>
- Cortex Technologies - <https://www.cortextechnologies.net/>

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### Certifications

- Supervised Machine Learning by Andrew Ng [Coursera, Stanford Online]
- Seeds for the future 2024 Top 10 - Huawei.
- Industrial Training from 9th March to 26th March, 2024 at Forbes Marshall.