

# Afif Rayhan Pranto

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## EDUCATION

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Brac University	Dhaka, Bangladesh
❖ Bachelor of Science in Computer Science and Engineering	CGPA: 3.81 / 4.00
❖ Academic Year: May 2021 - June 2025	
❖ Relevant Coursework: Data Structure, Data Algorithms, Database Systems, Artificial Intelligence, System Design & Analysis, Neural Networks, Software Engineering	

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Dhaka Residential Model College	Dhaka, Bangladesh
❖ HSC in Science	GPA: 5.00 / 5.00
❖ Academic Year: 2018 - 2020	

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Dhaka Residential Model College	Dhaka, Bangladesh
❖ SSC in Science	GPA: 5.00 / 5.00
❖ Academic Year: 2017- 2018	

## PROJECTS

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- [Nilam-BD online auction system](#) (Laravel, PHP, Socialite, MySQL, Bootstrap)
    - Built a full-stack auction platform with user authentication (including Google login), role-based access, and real-time bidding.
    - Developed modules for auction listing, admin approval, payment tracking, and category-based search.
    - Designed admin and seller dashboards; contributed to both frontend (Bootstrap) and backend (Laravel MVC).
  - [MoneyMap - A Personal Finance Tracker](#) (MERN Stack)
    - Designed a user-friendly web app to help individuals **track income, expenses, debt**, and **budget goals** efficiently.
    - Implemented key features including **income and expense tracking**, **interactive data visualization**, **budget and goal planning** with alerts, **debt management** with repayment tracking, and **CSV-based data import/export** with filtering and sorting.
    - Developed frontend with **React.js** and backend APIs with **Express.js & Node.js**.
    - Designed and managed the **MongoDB** database for transaction storage and budget tracking.
  - [Club Management System](#) (PHP, MySQL)
    - Developed a multi-role web platform for managing university clubs, events, members, and sponsorships.
    - Handled secure authentication, session management, database connectivity, and dynamic user dashboards using **PHP** and **MySQL**.
    - Backend handled event lifecycle, membership management, announcement posting, fund approvals, and sponsor verification.

## TECHNICAL SKILLS

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Spoken Language: Bangla, English

Programming Languages: Python, C, C++, Javascript, SQL

Web Programming: PHP, MySQL, HTML5, CSS

Framework: Laravel, MERN

Tools: PyCharm, Jupyter Notebook, Colab, Git, GitHub, MySQL

ML: CNN, ViT

## UNDERGRADUATE RESEARCH

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- [A Hybrid Deep Learning Approach with ConvNeXt and Vision Transformer for Detecting Schizophrenia in fMRI Scans](#) (**Computer Vision**)
  - Developed a deep learning model combining 3D ConvNeXt and Vision Transformer (ViT) to classify schizophrenia from 4D fMRI data.
  - Applied advanced preprocessing and data augmentation techniques using **TorchIO** and fMRI-specific transforms.
  - Fine-tuned pretrained weights on the **COBRE dataset** using stratified 5-fold cross-validation for robust evaluation.
  - Achieved **91.06% accuracy**, demonstrating strong generalization on a small neuroimaging dataset.
  - Tools & Technologies: **PyTorch, TorchIO, NiBabel, NumPy, Matplotlib, Python**

## EXTRACURRICULAR ACTIVITIES

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- ❖ General Member, Brac University Computer Club (BUCC)
  - Organized seminar events and coding contests.
- ❖ Volunteer, Brac University Community Service Club (BUCSC)
  - Distributed water and saline to rickshaw pullers during extreme heat.
- ❖ Volunteer, Local Community Service
  - Assisted with traffic control and participated in street cleaning.

## INTEREST AND HOBBIES

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- ❖ Programming
- ❖ Learning
- ❖ Research
- ❖ Movies
- ❖ Tech documentaries
- ❖ Gaming