

## Pravakar Das

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Portfolio | GitHub | LinkedIn

## Professional Summary

Software Developer specializing in backend engineering, full-stack development, and AI-driven solutions. Built 6+ projects including ERP, ML-powered attendance systems, and 3D interactive web platforms. Proficient in Python, JavaScript frameworks, Flask, React, Next.js, and modern deployment workflows. Strong problem-solving, teamwork, and adaptive learning skills.

## Skills

- **Programming:** Python, JavaScript
  - **Frameworks:** Flask, React, Next.js, Node.js, Three.js
  - **Databases:** MongoDB, MySQL, MongoDB Atlas
  - **Tools:** Git, Linux, Vercel, Render, YOLO
  - **Specializations:** ML, Computer Vision, Web Development
- Problem Solving
  - Analytical Thinking
  - Communication
  - Documentation
  - Teamwork
  - Collaboration
  - Adaptability
  - Rapid Learning
  - Project Management
  - Organization

## Experience

## Backend Developer (Intern / Freelance Projects)

*Jan 2025 – Present*

## Remote / Personal Projects

- Developed modular backend services using Python, Flask, and Node.js, serving 20+ concurrent requests.
- Implemented secure REST APIs with JWT authentication and integrated with frontend applications.
- Collaborated on team projects via GitHub, managing version control and pull request reviews.

## Projects

- **IntegraFlow** [GitHub](#)  
*Tech Stack: Next.js, Node.js, MongoDB, REST APIs, JWT Auth*  
Enterprise-grade ERP system with role-based access, HR management, and automated workflows. Designed backend services to handle 100+ concurrent users efficiently.
- **Employee Attendance Portal** [GitHub](#)  
*Tech Stack: Python, Flask, OpenCV, Face Recognition, MongoDB*  
Automated attendance management using facial recognition, real-time logging, and reporting for educational/office environments.
- **Auris** [GitHub](#)  
*Tech Stack: React, Node.js, Express.js, MongoDB, Firebase*  
Full-stack hotel booking platform with real-time reservation handling, user authentication, and responsive UI.
- **Essential Tools** [GitHub](#)  
*Tech Stack: Python, Flask, PDF Libraries*  
Privacy-focused web app for PDF merging, splitting, compression, and format conversion with local-first processing.
- **HostCast** [GitHub](#)  
*Tech Stack: Python, Socket Programming, LAN Networking*  
High-performance LAN file sharing with low-latency screen sharing and real-time communication.
- **Arena Strike** [GitHub](#)  
*Tech Stack: Python, OpenGL, MediaPipe*  
3D cannon-defense game with gesture-based controls, leveraging computer vision for immersive interaction.

## Activities & Competitions

## BRAC University Computer Club (BUCC)

2023 – 2024

Member contributing to technical and organizational activities.

## Research Publications

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### AP-GAN: Attention PatchGAN for Low-Light Underwater Image Enhancement



- Developed GAN-based architecture for underwater image enhancement using attention-driven patch correction.
- Improved low-light image quality significantly for marine and scientific imaging applications.




## Research Interests

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- Computer Vision   Image Enhancement
- Generative Adversarial Networks (GANs)
- Applied Machine Learning
- AI for Real-World Systems

## Certifications

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- MLOps Fundamentals 
- AI in Office Administration 
- Comprehensive Web Development: HTML5, Python, Flask 

## Education

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<b>B.Sc. in Computer Science</b>	2022 – 2025
BRAC University, Dhaka, Bangladesh	CGPA: 2.8/4.0
Relevant Courses: Machine Learning, Data Structures, Web Development, Software Engineering	
<b>Higher Secondary Certificate (Science)</b>	2020 – 2022
Islamia Degree College, Chattogram, Bangladesh	GPA: 4.93/5.0
<b>Secondary School Certificate</b>	2012 – 2018
Hazi Md. Mohsin Govt. High School, Chattogram, Bangladesh	GPA: 4.84/5.0

## Languages

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- English – Professional Proficiency
- Bengali – Native

## References

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### Dr. Md. Ashraful Alam

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