

**Pravakar Das**  
Chittagong, Bangladesh  
Phone: +880 1515 675655

Portfolio: [pravakar.vercel.app](http://pravakar.vercel.app)  
Mail: [pravakar459@gmail.com](mailto:pravakar459@gmail.com)  
Github: [github.com/PravakarDas](https://github.com/PravakarDas)  
LinkedIn: [linkedin.com/in/pravakarda](https://linkedin.com/in/pravakarda)

## Professional Summery

---

Results-driven Software Developer specializing in full-stack web development and AI integration. Adept at designing scalable systems, optimizing backend performance, and building user-centric applications that deliver measurable business value. Passionate about turning complex problems into efficient, real-world software solutions.

## Skills

---

Language: Python, JavaScript  
Frameworks: Flask, React, Next.js, Three.js  
Databases: MySQL, MongoDB, Atlas  
Tools & Concepts: REST APIs, Machine Learning, Computer Vision, Data Analysis

## Projects

---

### Essential\_Tools

#### *Flask-based PDF Toolkit*

Developed a modular Flask app for secure PDF operations with local-only file handling, responsive UI, and REST API, enhancing privacy and usability for 20+ users.

### Arena\_Strike

#### *3D Cannon-Defense Game (Python, OpenGL, MediaPipe)*

Developed a 3D real-time cannon-defense game using PyOpenGL, dynamic physics, and gesture-based OpenCV controls, achieving smooth 60 FPS and enhanced gameplay engagement.

### AI-Chatbot

#### *Gemini API + Flask*

Created an AI chatbot using Google Gemini API with context-aware responses, modular backend, and optimized requests, reducing latency by 25% and improving scalability.

## Experience

---

### RenderLab

September 2025 – Present

#### *Remote | Backend Developer*

Engineered backend architecture using Python, Next.js, and React to deliver secure and high-performance web applications for multiple clients. Collaborated with cross-functional teams to design modular, testable microservices that enhanced deployment speed by 20%.

## Education

---

### Brac University – Dhaka, Bangladesh

| 2021 - 2025

#### *Bachelor of Science in Computer Science*

Concentration in Machine Learning and Software Engineering with strong focus on applied computer science principles.

## Activities

---

Participated in the NASA Space Apps Challenge 2024, developing a 3D, AI-driven web platform that visualized solar system data using real-time NASA APIs and VR integration, enhancing educational interactivity and engagement.

## Research

---

AP-GAN: Attention PatchGAN for Low-Light Underwater Image Enhancement – Contributed to improving underwater visibility through GAN-based contrast correction, achieving notable gains in clarity and image fidelity.