

Shajid Shahriar

Dhaka, Bangladesh

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EDUCATION

Islamic University of Technology (IUT)

B.Sc. in Electrical and Electronic Engineering (EEE)

Dhaka, Bangladesh

Expected Sep. 2026

Notre Dame College

Higher Secondary Certificate (Science)

Dhaka, Bangladesh

Class of 2020

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python

Frontend: React.js, Next.js, Tailwind CSS, Framer Motion

Backend: Node.js, Express.js, MongoDB, Mongoose, PostgreSQL, Supabase, REST APIs

Tools: Git, GitHub, VS Code, Linux, Vercel, PyTorch, OpenCV

FEATURED PROJECTS

Smart-Vet | *Next.js, Node.js, Gemini AI* | [\[Live Demo\]](#) [\[GitHub\]](#)

Jan 2026 (ongoing)

- Built a full-stack AI resume analyzer with Next.js and MongoDB, using NextAuth.js for Google OAuth and ensuring each user only ever sees their own data across all API routes.
- Added a strictness slider in the UI that directly controls Gemini's temperature at request time, so the AI scores leniently or harshly depending on the recruiter's preference with no prompt changes needed.
- Let users supply their own Gemini API key via request headers, so they control their own usage and aren't locked into a shared key.
- Built a caching layer using SHA-256 hashes of the resume, job description, and strictness setting. Repeat analyses return instantly instead of hitting the LLM again, cutting response time from 5–8s to near zero.

Medimove | *React, Node.js, MongoDB* | [\[Live Demo\]](#) [\[GitHub\]](#)

Dec 2025

- Built a B2B medical equipment platform where hospitals can add items to a quote cart and submit them as structured RFQ leads, tracked all the way through an admin dashboard.
- Set up an image upload flow in the admin panel with drag-and-drop, browser-side compression before upload, and Cloudinary for storage. Also made sure it still worked for older product records that used a single image field.
- Wrote a MongoDB aggregation that pulls lead counts by pipeline status and inventory data in a single query, so the dashboard loads in one request instead of several.
- Protected the admin panel with JWT authentication and bcrypt password hashing. All inventory and lead management routes validate the token before doing anything.

Synthetic Winter Driving Data Generation | *Python, PyTorch, CycleGAN* | [\[GitHub\]](#)

Apr 2026

- Trained a CycleGAN to convert summer driving images into synthetic winter scenes, generating training data for ADAS models that would otherwise have limited exposure to snow and low-visibility conditions.
- Ran two dataset versions: V1 with ~700 images and V2 with ~400 more carefully curated images at 512×512. V2 achieved 26.1% better SSIM and 9.3% lower FID despite 40% fewer samples, showing quality mattered more than volume.
- Validated the synthetic outputs by running them through a pretrained Faster R-CNN detector across 8 object classes. V2 retained nearly 2× more detectable objects post-translation than V1.

Ping Pong Launcher (Computer Vision) | *Python, OpenCV, C++, Arduino* | [\[GitHub\]](#)

Jun 2025

- Built a ping-pong launcher that uses real-time pose detection to track a person and aim servos at them — supports follow and random targeting modes, plus topspin, backspin, and flat shot presets via dual-wheel control.
- Added a fire-lock using a 5-frame angle buffer — the launcher only triggers when the servo holds the same aim for 5 consecutive frames, which stopped it from misfiring on jitter during tracking.

ACHIEVEMENTS

Best Science Team Award | *IRC 2025*

2025

- Recognized for excellence in robotics and team coordination during the International Rover Challenge.

Best Scientist Award | *ERC 2023*

2023

- Awarded for outstanding individual contribution and technical innovation in the European Rover Challenge.