

Showrin Rahman

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Aspiring AI Engineer with hands-on experience in deep learning, computer vision, and satellite image analysis. Proficient in Python, PyTorch, OpenCV, and the MERN stack. Passionate about building AI-driven solutions for real-world problems, with a focus on sustainability and social impact.

SKILLS

- **Programming Languages:** Python, JavaScript, C, SQL
- **Web Development:** FastAPI, React.js, Node.js, Express.js, MongoDB, HTML, CSS, Tailwind CSS, Mantine UI
- **ML & AI Frameworks and Libraries:** TensorFlow, PyTorch, OpenCV, YOLO, scikit-learn, NumPy, pandas
- **Tools:** Git/GitHub, Jira, Jest, Confluence, Roboflow, Hugging Face

PROFESSIONAL EXPERIENCE

Coding Instructor, Dreamers Academy (Part Time, Remote) | Dec 2024 - Present

- Taught 100+ students in beginner-level Python, JavaScript, HTML, and CSS.
- Provided hands-on training in block-based platforms like Scratch, MIT App Inventor, and Roblox Studio.
- Balanced teaching responsibilities with full-time undergraduate coursework.

Sysònex, Quality Assurance Analyst (Internship, Remote) | June 2024 - December 2024

- Completed internship during undergrad, leading 60+ scrums and 10+ sprints.
- Reduced bug backlog by 15% through test case creation and Jira documentation.
- Logged 80+ test cases; contributed to UI/UX fixes using GitHub, React.js, and Next.js.

AWARDS AND HONORS

- OSUN Undergraduate Mobility Scholarship ,Spring 2024, (\$41,019), Bard College, USA: Fully funded for tuition, accommodation, living expenses, insurance, and travel.
- 2nd Runner-Up, 3rd Kibo Robot Programming Challenge 2022 , Japan Aerospace Exploration Agency(JAXA)).
- Top 5 Finalist, FOREWARN Disaster Hackathon 2.0 (84 teams).
- Top 15, Banglalink Womentor Program (400 applicants).

CO CURRICULAR ACTIVITIES

Bracu Mongol Tori , Senior I | Feb 2022- Dec 2023

- Developed an offline rover mapping system with 20% efficiency gain, worked with OpenCv and Yolo v5 and built the BRACU Mongol Tori website frontend

Robotics Club of BRAC University - ROBU, Secretary | Jan 2024 - June 2024

- Served as a panelist in a 40-member Research and Project Management department, managed the flagship Basics of Robotics course, and developed 5+ projects using ROS, OpenCV, Arduino, and Raspberry Pi.

Team Bertho, Web developer | June 2021 - October 2022

- Designed Team Bertho's website using WordPress, enhancing youth engagement and community building through storytelling and digital media.

EDUCATION

BRAC University, Dhaka, Bangladesh

- BSc in Computer Science (CS) | **Expected Graduation September 2025**

Bard College, New York, USA

- Exchange Semester, Spring 2024 | **Jan 2024 -May 2024**

RESEARCH EXPERIENCE

- Multi-Scale Feature Fusion with Adaptive Attention for Robust Image Deblurring (EEE Eurocon 2025 ,[link](#))
- TWIG: Two-Step Image Generation using Segmentation Masks in Diffusion Models, Springer IFIP Summer School 2025, [link](#)
- Riverbank Change Detection in the Jamuna River Basin, Bangladesh (Accepted ACDSA 2025)
- TextDiffuser-RL: Efficient and Robust Text Layout Optimization for High-Fidelity Text-to-Image Synthesis . ([arXiv preprint](#))
- Masked Autoencoder and Mamba-Based Self-Supervised Segmentation of SAR Imagery for Riverbank Erosion Detection (Undergraduate Thesis)