Md Saleh Sadiq Tanim

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SKILLS

Languages: Python, C/C++, JavaScript, HTML
Technologies & Tools: Django, FastAPI, Redis, PostgreSQL, AWS, Git/GitHub, CI/CD, LangGraph (agentic AI workflows), OpenCV, React

PROJECTS

- **Remote Terminal** Browser-based remote terminal enabling users to run commands, send keystrokes, retrieve files, capture screenshots, and access webcam feeds from a target machine. Implemented with Django Channels and Redis.
  🌐 github.com/TanimSk/Remote-Terminal
- **Avro.py** Open-source text parser converting Romanized Bengali into phonetic Unicode, with support for reverse conversion. Contributed by implementing the reverse function.
  🌐 github.com/hitblast/avro.py
- **Fabric Defect Detection (Android App)** Mobile app that detects fabric defects with bounding boxes and confidence scores using a custom YOLO model (converted to TFLite and quantized for efficiency). Developed with TensorFlow, Flutter (UI), and Kotlin (OpenCV integration).
  🌐 github.com/TanimSk/OpenCV-fabric-defect-detection-app
- **Agentic Report** Telegram bot powered by agentic AI to process voice, text, and bill images for automated financial record-keeping. Built using LangGraph, OpenAI, and Flask.
  🌐 github.com/TanimSk/AgenticReport
- **Student Management & E-commerce Platform** Full-featured web platform for managing students, classes, and exams, with integrated e-commerce for selling books and merchandise.
  🌐 ra-physics.space

EDUCATION

University of Rajshahi	**Currently Enrolled**
B.Sc. in Computer Science and Engineering	*Expected Graduation: 2027*
Higher Secondary Certificate (HSC)	**GPA: 5.00**
Secondary School Certificate (SSC)	**GPA: 5.00**

ACHIEVEMENTS

- **Champion, BRAC AI Hackathon:** Developed an AI-powered surveillance and employee benchmarking system. Led backend integration of ML models with microservices and real-time camera streaming.
- **Champion, CUET Industrial Techathon:** Designed a smart parking system using a YOLO model for car detection, WebSocket for live updates, and RTSP for real-time video streaming.
- **Community Choice Award, Xylem Global Student Innovation Challenge:** Co-developed *ResQMap*, an AI-powered disaster response tool mapping missing persons. Implemented backend with Django Celery (automated weather updates), Selenium (data scraping), and OpenAI API (data validation and scoring).
- **Internationalist, World Robot Olympiad 2025, Singapore:** Represented Bangladesh at the WRO International Finals 2025 (Future Engineers). Developed the robot's software, including computer vision (color detection, contour analysis), odometry-based localization, and PID motor control. Achieved 29th place globally.

EXPERIENCE

- **Software Developer, Ongshak (Jan 2022 – Present):** Backend development and embedded systems programming. Began while in college and continue to contribute actively.