

Siam Hossain Nayon

Full-Stack Web Developer · AI / ML Engineer

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PROFILE

Full-stack web developer and Computer Science student who ships polished, production-ready applications across the entire stack — from React/Next.js front-ends and Node/PHP back-ends to databases and deployment. Equally comfortable bringing machine-learning models into real products. I care about clean code, strong UX, and owning a feature end to end.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, PHP, Python, C++, Java, C#, SQL

Frontend: React, Next.js, Three.js, Tailwind CSS, HTML5, CSS3, Framer Motion, GLSL

Backend: Node.js, PHP, REST APIs, n8n automation

Databases: MySQL, PostgreSQL, Oracle

AI / ML: PyTorch, TensorFlow, DINOv2, CLIP, ResNet, CNNs

Tools & DevOps: Git, Docker, Vercel, Jupyter, Linux

SELECTED PROJECTS

Siam AI Chatbot Next.js · TypeScript · 3D

Full-stack AI assistant with a conversational UI and animated 3D background; deployed on Vercel.

github.com/siam-hossain9/siam-ai-chatbot

Customer Support AI Agent AI Agents · Automation

Conversational AI agent that automates customer-support workflows end to end.

github.com/siam-hossain9/customer-support-ai-agent

Animated Website React · Vite · Three.js · GLSL

Immersive scroll-driven experience with particle systems and custom shaders.

github.com/siam-hossain9/animated-website

Financia — Financial Management System PHP · MySQL

Complete financial-management web app with a PHP + MySQL backend and full CRUD workflows.

github.com/siam-hossain9/Financia

Virtual Pet Next.js · TypeScript

Browser-based virtual-pet game with persistent interactive state.

github.com/siam-hossain9/virtual-pet

Personal Portfolio Next.js · Tailwind · Framer Motion

This site — custom 180° radar projects UI, canvas particle field, and synced audio hero.

siamportfolio.vercel.app

RESEARCH

Galaxy Morphology Classification & Open-Set Detection PyTorch · ResNet50

Two-stage fine-tuning with focal loss; VAE + Mahalanobis detectors flag novel galaxies. 92.96% test accuracy on Galaxy Zoo; far-OOD AUROC ~1.000.

github.com/siam-hossain9/galaxy-morphology-classification

Few-Shot Fine-Grained Image Classification DINOv2 · CLIP · ViT

Foundational vision models as feature extractors — linear probing beats specialized meta-learning. 98.85% (CUB-200-2011), 99.97% (Oxford Flowers-102).

github.com/siam-hossain9/few-shot-fine-grained-baselines

EDUCATION

B.Sc. in Computer Science & Engineering

American International University-Bangladesh (AIUB)