

SHAHIR MONJUR SHAREEF

📍 Dhaka, Bangladesh

☎ +8801859104849

🌐 /shahirmonjur

✉ shahirmonjurshareef@gmail.com

🌐 /shahir-monjur

ACADEMIC CREDENTIALS

B.Sc. in Computer Science and Engineering
Green University of Bangladesh, Dhaka
CGPA - 3.08 out of 4.00

Summer 2025

RESEARCH INTERESTS

- ML/RL
- Edge Intelligence
- Industry Automation
- Human-AI Collaboration

RESEARCH EXPERIENCE

Lab : Green Computing and Communications
Role : Undergraduate Research Assistant
Supervisor : Asst. Prof. Jargis Ahmed
Research title : Task Offloading Optimization in Vehicular Edge Computing Network Using ML
Summary : My thesis proposed a robust strategy for task offloading in vehicular edge networks to maximize the utilization of network edge resources in busy urban areas. The task processing model introduces UAVs and parked user vehicles into the offloading scenario as task processing nodes utilizing their computing resources to minimize workload on the edge servers and optimize decision making through minimal delay and energy consumption under respective budget constraints.

PROFESSIONAL EXPERIENCE

Automation Engineer

September 2025 - present

The Utility Company, NM, USA | Remote

- Contributing to an AI-assisted backoffice ecosystem integrating real-time automation, provenance tracking, and human-AI collaboration frameworks
- Designed and implemented autonomous workflow modules for service and shop management modules using Next.js, GraphQL, and OpenAI API integrations
- Collaborated on I3AS architecture to align industrial automation with ethical and sustainable design principles

Web Developer

March - April 2025

NextTech Limited, Dhaka, BD | Internship

- Designed and developed BharaDorkar.com, a full-stack property rental platform streamlining property listings, bookings, and contact management for clients across Bangladesh
- Implemented dynamic search filtering, map-based property visualization, and responsive interfaces using PHP, JavaScript, Tailwind CSS, and Leaflet.js
- Collaborated with a cross-functional team using Agile methodology to integrate front-end UX and back-end data models with MySQL and API endpoints

Content Writing/Event Management

Oct 2021 - May 2023

Centre of Excellence in Teaching & Learning - GUB, Dhaka, BD | Internship

Strategic planning and implementation for the university's post Covid Edutech Projects including CTL workshops, student symposiums, community outreach through social media, and web content creation

TEST SCORES

- GRE: 316 (Verbal 155, Quant 161, AWA 3.5)
- IELTS: Overall 7.5 (L 8.0, R 8.5, W 6.5, S 7.0)

PROJECTS

LEDGER1.AI – an AI-assisted backoffice for business automation | October 2025

“Ledger1.ai” is a universal AI-assisted backoffice curated to handle the heavy load of shop, staff, inventory, data, service management and more with the help of an active AI companion called Varuni. Powered by OpenAI realtime toolcall-capable models, Varuni is personalized deterministic AI that will give industry-expert insights for day-to-day business and take management actions on command. I was responsible for modifying the prototype for the auto repair shop industries i.e., developing modules like service bay, repair order, order catalog, vehicle, vehicle parts and customer management and more.

Technologies: Next.js 15.4, Typescript, Shadcn UI, Tailwind CSS, MongoDB, GraphQL, Apollo Client (GraphQL), ToastPOS, ESLint, Git, Docker

BharaDorkar.com – an all-in-one property rental website | April 2025

BharaDorkar is a rental platform aimed at streamlining all sorts of property bookings in Bangladesh. I contributed to core features such as dynamic search filtering, Contact Us form backend integration, and map API integration. The project strengthened my skills in PHP, JavaScript, MySQL, map integration and mobile-first web development within a real-world agile team setting.

Technologies: PHP, Javascript, Tailwind CSS, Leaflet JS, OpenStreetMap

Email Spam Detection with Naive-Bayes Algorithm | May 2025

This project presents an intelligent Email Spam Detection system that leverages machine learning algorithms and cloud-based email access via the Gmail API. The system not only provides real-time spam classification but also integrates a secure and user-friendly web interface using Flask.

Technologies: Python, Machine Learning, Flask, Gmail API, CSS, JS | [GitHub Link](#)

TECHNICAL SKILLS

ML Libraries	: Scikit-Learn, PyTorch, TensorFlow, XGBoost, OpenAI API
Data analysis	: NumPy, Pandas, Matplotlib, Plotly, Seaborn, Power BI
Web technologies	: Next.js, TS, Tailwind CSS, Flask, PHP, GraphQL, MongoDB, Neon, MySQL
Simulation	: MATLAB, Docker, SimPy, Proteus, Autodesk
Programming	: Python, JavaScript/TypeScript, C, C++, PHP, Java, Shell Script

RELEVANT COURSEWORK

- | | | | |
|-----------------------|---------------------------|-----------------|--------------------|
| • Data Structures | • Algorithms | • OOP | • Operating System |
| • Computer Networking | • Artificial Intelligence | • Cybersecurity | • Machine Learning |

CO-CURRICULAR ACTIVITY

Technical Lead

Virtual Session, *Dhaka DOCLAB 2022* - a pioneer platform for pitching and mentoring of documentary filmmakers

Technical Volunteer for Blended Venue Management

International Conference on *Innovation & Transformation for Development 2022*

Virtual Session Coordinator

International Conference on *Innovation & Transformation for Development 2021*

JOURNAL PUBLICATION

Co-authored a mixed method paper by contributing to surveying, statistical analysis and data presentation.

Paper title: “Work-Life Balance: Reality Check for the Working Parents in Dhaka City”, *Green Review of Social Sciences*, June 2024, vol. 10, no. 1, pp.65-85 | [PDF Link](#)

AWARDS

- I. *Ashar Alo Scholarship 2022* by Green University of Bangladesh for voluntary services
- II. *Top 10 Best Project Showcase* - Integrated Design Project II (150+ project presented), 2024, Dept. of CSE, GUB