# SHOWRIN RAHMAN

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## SUMMARY

Aspiring Software Engineer with a focus on AI and full-stack development and hands-on experience in Quality Assurance. Eager to contribute to building intelligent, user-centric applications and scalable backend systems. Passionate about building AI-driven solutions for real-world problems.

## EDUCATION

**BRAC University**                                                                                          **June 2021 - September 2025**

Bachelor of Science in Computer Science, CGPA: 3.62                                         Dhaka, Bangladesh

**Bard College**                                                                                              **January 2024 – May 2024**

Exchange Semester                                                                                               New York, USA

## EXPERIENCE

**Associate AI Engineer**                                                                                  **October 2025 – Present**

Ontik Technology                                                                                               Dhaka, Bangladesh

- Designed and deployed **agentic AI workflows** using **CrewAI**, **n8n**, and **Google ADK** to drive intelligent automation and decision-making
- Developed and served scalable AI microservices with **FastAPI**, integrating LLMs and automation pipelines
- Implemented and containerized applications using **Docker** for seamless deployment on **GCP** and **AWS EC2**
- Collaborated on data-driven model design, testing, and optimization using **Python**, **MLflow**, and **DVC**
- Contributed to CI/CD workflow automation with **GitHub Actions** and ensured reliable end-to-end deployment pipelines

**AI Intern**                                                                                                    **July 2025 – Present**

Ontik Technology                                                                                               Dhaka, Bangladesh

- Developed and optimized intelligent agent workflows using **CrewAI**, automation pipelines with **n8n** and **Selenium**
- Built scalable AI solutions with **Python**, **Docker**, and large language models (LLMs)
- Performed data preprocessing and analysis using **Pandas**, **NumPy**, and **scikit-learn**
- Integrated CI/CD pipelines with **GitHub Actions** and maintained reproducible research in **Jupyter Notebooks**

**Coding Instructor (Part-Time, Remote)**                                             **December 2024 – July 2025**

Dreamers Academy                                                                                             Dhaka, Bangladesh

- Taught 100+ students beginner-level Python, JavaScript, HTML, and CSS

**Quality Assurance Analyst Intern (Remote)**                                     **June 2024 – December 2024**

Sysonex                                                                                                             Dhaka, Bangladesh

- Led 60+ scrum meetings and 10+ development sprints, ensuring effective project coordination
- Reduced bug backlog by 15% through comprehensive test case development and Jira reporting
- Developed 80+ test cases and supported UI/UX improvements using GitHub, React.js, and Next.js

## SKILLS

- **Programming Languages:** Python, JavaScript, C
- **Web Technologies:** FastAPI, Express.js, React.js, Node.js, Tailwind CSS, Mantine
- **Databases:** MySQL, MongoDB
- **AI/ML Tools:** PyTorch, TensorFlow, CrewAI, N8N , NumPy, Pandas, scikit-learn, Natural Language Toolkit (NLTK), OpenCV, Hugging Face, Roboflow
- **Development Tools:** Git, GitHub, Linux (Ubuntu), Docker, Kaggle, Jira, Confluence,

## PROJECTS

- CrisisCrewBot: AI-powered Fire Emergency Response System – Built with **ReactJS**, **Gemini AI**, and **Google Sheets API** for real-time fire incident reporting in Dhaka – View Project — Live Demo

- MangoScan: A Bangladeshi Mango Classifier – Classified 10 Bangladeshi mango varieties using **PyTorch** and **Streamlit** with 95.05% accuracy – View Project — Live Demo

- Token-Level Part-of-Speech Tagging Using Recurrent Neural Networks – BiLSTM model achieving **97% accuracy** on the POS 1 dataset – View Project

- ThesisConnect – Full-stack platform for academic collaboration and research management using **React**, **Node.js**, **Express**, and **MongoDB**, enabling blogs, projects, publications, and community features – View Project — Live Demo

## RESEARCH & PUBLICATIONS

- Multi-Scale Feature Fusion with Adaptive Attention for Robust Image Deblurring (*IEEE Eurocon 2025*)

- TWIG: Two-Step Image Generation using Segmentation Masks in Diffusion Models (*Springer IFIP 2025*)

- Riverbank Change Detection in the Jamuna River Basin, Bangladesh (*IEEE ACDSA 2025*)

- TextDiffuser-RL: Efficient and Robust Text Layout Optimization for High-Fidelity Text-to-Image Synthesis (*arXiv 2025*)

- Masked Autoencoder and Mamba-Based Self-Supervised Segmentation of SAR Imagery for Riverbank Erosion Detection (*Undergraduate Thesis*)

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

**BRACU Mongol Tori — Senior I**                                            **February 2022 – December 2023**

Student Organization                                                                                Dhaka, Bangladesh

- Built an offline rover mapping system with OSM achieving 20% efficiency gain; utilized OpenCV, Roboflow, Kaggle datasets, Git/GitHub, and developed the frontend for the BRACU Mongol Tori website.

**Robotics Club of BRAC University (ROBU) — Secretary**                    **January 2024 – June 2024**

Student Organization                                                                                Dhaka, Bangladesh

- 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.

## HONORS & ACHIEVEMENTS

- **OSUN Undergraduate Mobility Scholarship:** Awarded full funding (USD $41,019) for Spring 2024 semester at Bard College, covering tuition, accommodation, living expenses, insurance, and travel

- **2nd Runner-Up:** 3rd Kibo Robot Programming Challenge 2022, organized by Japan Aerospace Exploration Agency (JAXA)

- **Top 5 Finalist:** FOREWARN Disaster Hackathon 2.0 (competed against 84 teams)

- **Top 15 Selection:** Banglalink Womentor Program (selected from 400 applicants)