Shamyo Brotee

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Education

University of Dhaka   **Dhaka, Bangladesh**
B.Sc in Computer Science and Engineering   *2018 – 2022*
- CGPA: 3.60 (5th highest CGPA among 54 students)

Publications

Optimizing UAV-UGV Coalition Operations: A Hybrid Clustering and Multi-Agent Reinforcement Learning Approach for Path Planning in Obstructed Environment

First Author   **Ad Hoc Networks, Elsevier, July 2024 (Q1 Journal)**

Professional Experience

Enosis Solutions   **Dhaka, Bangladesh**
Software Engineer   *February 2023 – July 2024*
- Active offshore member in the data analytics team of a popular dental practice system
- Engaged in the design, development, and maintenance of the data infrastructure
- Built multiple data analytics dashboards, enabling deeper insight into the data

Research Experience

Green Networking Research Group, University of Dhaka   **Dhaka, Bangladesh**
Undergraduate Research Assistant   *2021 - 2023*

Standardized Tests

GRE
Total Score: 325/340   *September 18, 2023*
- Quantitative Reasoning Score: 169/170
- Verbal Reasoning Score: 156/170
- AWA: 5.0/6.0

TOEFL
Total Score: 108/120   *October 28, 2023*
- Reading: 30/30
- Listening: 26/30
- Speaking: 27/30
- Writing: 25/30

Skills and Knowledge

- **Language:** Python, C++, C#, C, SQL, Java, JavaScript
- **Database:** Microsoft SQL Server, MySQL, Microsoft Azure, Azure Data Studio, SSMS
- **Data Science:** Pandas, Numpy, Matplotlib, Scikit-Learn, PyTorch, Microsoft Power BI
- **Personal Skills:** Critical Thinking, Problem Solving, Adaptability, Punctuality

Academic Projects

- **Tag (2022):** A *Multi-Agent Deep Reinforcement Learning* based predator-prey game, using *C#* and *Unity game engine*
- **Nox (2021):** An English to Bangla web dictionary implementing *Perfect Hashing* for faster search speed, using *JavaScript*
- **CSEDU Gossip Bot (2020):** An educational chatbot for academic queries regarding our university, using *Python*
- **Donate+ (2019):** An Android app that caters to the blood donation community with an urgent need of donors and recipients, using *Java*
- **The Lone Ranger (2018):** An action-platform shooter game, using *C++* and *iGraphics library*

Achievement

- **4th place** in Code Samurai 2022 (An inter-university hackathon arranged by Japan in Bangladesh)