

Sourav Sarker

Dhaka, Bangladesh

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Objective

Having a colorful footprint in software engineering spanning over six years, I have cultivated a robust skill set that includes clean coding, system design, settling R&Ds and debugging abilities; also, my commitment to problem-solving is demonstrated through successful project completions. Now, I am fueled by an unwavering passion for delving into challenging research topic which makes me an ideal candidate for contributing in research.

Education

Shahjalal University of Science & Technology

BACHELOR OF SCIENCE IN COMPUTER SCIENCE & ENGINEERING

- CGPA: 3.28 / 4.00

Sylhet, Bangladesh

Mar 2015 — Feb 2019

Work Experience

SELISE Digital Platform

SOFTWARE ENGINEER (TEAM LEAD)

- Acting as a team lead:

Dhaka, Bangladesh

Apr 2020 — Present

- Led an engineering team of 4 in developing a Fintech software, generating close to CHF 1 million annually for the company.
- Worked within a tech team on a Swiss platform for insurance, pension, and broker sectors, enabling secure communication and data exchange.
- Contributed to the platform's plans to expand into a community-driven marketplace for third-party services and industry digitalization.

- Acting as a full-stack dev:

- Working on a scalable application designed to manage complete financial activities, assets, and plans for Swiss citizens.

Secure Link Services Ltd.

JUNIOR SOFTWARE ENGINEER

- Worked on a report generation tool that optimized the yearly business process for shareholders.
- Worked on a report generation tool that optimized the yearly business process for shareholders.
- Developed a project management system similar to Trello, using MongoDB, Node.js, and Socket.io.

Dhaka, Bangladesh

Apr 2019 — Mar 2020

Research Experience

Department of Computer Science & Engineering, SUST

RESEARCH ASSISTANT

Sylhet, Bangladesh

Jan 2018 - Feb 2019

- Collaborated with a team of researchers on a project focused on building a factoid question answering system in Bengali.
- Collected and preprocessed datasets from various sources, ensuring data quality and integrity.
- Implemented and fine-tuned NLP models using open-source machine learning libraries.
- Conducted literature reviews to identify relevant research, contributing insights to project strategy.
- Assisted in designing and conducting experiments, analyzing results, and presenting findings during weekly team meetings.
- Presented research progress at a regional NLP conference via poster presentation and published two papers.

SUST Natural Language Processing Lab

EXECUTIVE MEMBER

Sylhet, Bangladesh

July 2018 - June 2019

- Collaborated with a multidisciplinary team to build a Named Entity Recognition (NER) model for the Bengali search engine 'Pipilika'.
- Assisted in experimental design, conducted empirical evaluations, and analyzed results to refine model performance.
- Participated in workshops and seminars arranged by the SUST NLP Lab to stay updated with advancements in NLP and machine learning.

Publications

- Sarker, S., "Bengali Question Answering System for Factoid Questions: A statistical approach," 2019 2nd International Conference on Bangla Speech and Language Processing (ICBSLP), Sylhet, Bangladesh, 2019, pp. 1-5. doi: [10.1109/ICBSLP47725.2019.901512](https://doi.org/10.1109/ICBSLP47725.2019.901512).
- Sarker, S., "Classification of Bengali Questions Towards a Factoid Question Answering System," 2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT), Dhaka, Bangladesh, 2019, pp. 1-5. doi: [10.1109/ICASERT.2019.8934567](https://doi.org/10.1109/ICASERT.2019.8934567).

Technical Skills

- Languages:** C, C#, Python, JavaScript, MATLAB
- Frameworks:** Dotnet, Angular
- Database Management Systems:** SQL, NoSQL, Redis
- Data Analysis & Machine Learning:** Proficient in various frameworks and techniques: Numpy, Pandas, Matplotlib, Keras, SciKit-Learn, TensorFlow
- Tools:** Git, Jupyter Notebook, Visual Studio, Visual Studio Code, MS Office
- Web Development:** Full stack development experience, including project management
- Project Management:** Experience leading engineering teams and utilizing Agile methodologies in software development

Achievements

- 2018 **Best Poster Award:** International Conference on Bangla Speech and Language Processing (ICBSLP-2018),
Sylhet, Bangladesh
Awarded in the poster presentation segment.
- 2010 **Runner-up** (Twice): Bangladesh Mathematical Olympiad (BdMO) - Secondary Level, Bangladesh
2012 Secured runner-up position twice in the regional phase.
- 2013 **Champion:** National Earth Olympiad (NEO) arranged by BYEI, Bangladesh
Achieved the champion title in the National Earth Olympiad.

Test Scores

- IELTS:** Overall Band 6.5 (No band less than 6.0)

Language

- English (Fluent) - Bengali (Native) - Hindi (Intermediate)