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   *Sylhet, Bangladesh*
BACHELOR OF SCIENCE IN COMPUTER SCIENCE & ENGINEERING   *Mar 2015 — Feb 2019*
- CGPA: 3.28 / 4.00

Work Experience

SELISE Digital Platform   *Dhaka, Bangladesh*
SOFTWARE ENGINEER (TEAM LEAD)   *Apr 2020 — Present*
- **Acting as a team lead:**
    - 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.   *Dhaka, Bangladesh*
JUNIOR SOFTWARE ENGINEER   *Apr 2019 — Mar 2020*
    - Worked on a report generation tool that optimized the yearly business process for shareholders.
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    - Developed a project management system similar to Trello, using MongoDB, Node.js, and Socket.io.

Research Experience

Department of Computer Science & Engineering, SUST   *Sylhet, Bangladesh*
RESEARCH ASSISTANT   *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   *Sylhet, Bangladesh*
EXECUTIVE MEMBER   *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/ICBSLP47725.2019.201512**.
- 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**.

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 2012	***Runner-up*** (Twice): Bangladesh Mathematical Olympiad (BdMO) - Secondary Level, Bangladesh. 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)