Ashraful Islam

Software Engineer at Bangla Search Engine (Pipilika) https://rafithe47.github.io

EDUCATION

LEADING UNIVERSITY

Sylhet, Bangladesh

Email: ashrafulrafi@gmail.com Mobile: (88) 01722293046

B. Sc. in Computer Science and Engineering; CGPA: 3.30 out of 4.00

2009 - 2013

- \circ $\mathbf{Thesis/Project}$ $\mathbf{Title}:$ System to Secure Web Authentication: using cache, cookie, and session
- Supervisor: Rumel M. S. Rahman Pir, Associate Professor, Department of Computer Science & Engineering (CSE) and Head, Department of Electrical & Electronic Engineering (EEE)

Research Interest

• Software Engineering, Machine Learning, Natural Language Processing, Cyber Security, Information Retrieval, Data Science

EXPERIENCE

BANGLA SEARCH ENGINE (PIPILIKA)

Sylhet, Bangladesh

Aug 2017 - Present

- Software Engineer (Research and Development)
 - Search Relevancy Improvement: Improved keyword based search relevancy in all the Pipilika's search services by designing dynamic schema using Apache Solr supported by calculative implementation of Solr's dismax query parser Minimum Should Match and query boosting
 - A2i Search Portal (http://a2i.pipilika.com): Spend around six months to find out a generic approach to crawl and parse the unstructured data from various government websites and later on provided REST API using Spring Boot
 - Spellchecker Context Aware Library: After month-long, thorough research into the project improved the file—Dictionary—loading time by 20 seconds
 - Solr Analytic Library: This plug and play library required a lot of individual research to develop. It can provide domain wise time series data for any project build upon Apache Solr
 - Rich Document Parser Library: Wrote generic parser using jsoup library to extract data from file types such as doc, pdf, ppt, csv, etc. Extracting Bangla Unicode data from pdf files was the biggest challenge of all and still under development

SOUTHEAST UNIVERSITY

Dhaka, Bangladesh Apr 2015 - Aug 2017

Programmer

• Served more than three months as In-Charge of the Information Technology (IT) department

- Modify, correct, and improve the overall performance of the University Management System (UMS)
- o Developed "Result Prediction Tool" using Ajax, jQuery, JavaScript, MySql, Bootstrap3
- o Developed "Online Admission System" using PHP, MySql, jQuery, Ajax, Bootstrap3
- Coordinated and Monitored vendor company on developing Human Resources Management System (HRMS) Software as per the Software Requirements Specification (SRS)

DURBAR SOFTWARE

Dhaka, Bangladesh

Senior Software Engineer

Nov 2014 - Apr 2015

- Developed the annual "Local Health Bulletin 2015" report and "Photo Archiver System" for the Government of Bangladesh under the Ministry Of Health and Family Welfare as a vendor company
- Used Bootstrap Framework for cross-platform compatibility

IT LAB SOLUTIONS LTD.

Sylhet, Bangladesh

Software Developer(While Doing Undergraduate)

Feb 2012 - Jun 2014

- Designed and Developed customized web-based shop management software for different businesses
- Involved in back-end coding to manage dynamic pages using the CodeIgnitor framework

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TECHNICAL SKILLS

- Languages: Java, PHP, C, C++, JavaScript
- Databases: Apache Solr, MySql, MongoDB
- Frameworks/Libraries/Others: Spring Boot, Java Servlet, Docker, Jsoup, Scrapy, CodeIgniter, jQuery, Bootstrap3, Maven, Wordpress, Git

Relevant Coursework

• Artificial Intelligence with Prolog, Data Structure and Algorithms, Computer Algorithms and Complexity, Structure Programming C, Object Oriented Programming - C++, Java Programming, Operating Systems, Database Management System, Software Engineering, and System Analysis, Design and Development

Programming Background

- Contest Participation: IUT 4th National ICT Fest 2012, NSU ACM ICPC Dhaka Site 2011, SUST Inter-University Programming Contest 2011, IUT Inter-University Programming Contest 2011
- Solved over 400 problems from different online judges.
- Participated regularly in online programming contests hosted by online judges such as LightOJ, UVa Online Judge, etc.

VOLUNTARY UNIVERSITY SERVICES

- Competitive Programming Instructor: Conducted workshops on problem-solving especially using C and C++ with dedicated sessions on Data Structure and Algorithms
- Public Relation Officer and Vice-President: Spent a lot of my time as a committee member of the Leading University Computer Club (LUCC) taking on roles such as Public Relation Officer and Vice-President
- Security Assurance Agent: Served as a Security Assurance Agent of the Bangladesh National Cadet Corps (BNCC), Leading University platoon

Conference Participation

- ICBSLP 2019: International Conference on Bangla Speech and Language Processing
- ICBSLP 2018: International Conference on Bangla Speech and Language Processing

Test Score Information

- GRE: Graduate Record Examinations General Test: Overall: 304, (Quantitative-159, Verbal-145, AWA-3.0)
- IELTS: International English Language Testing System: Overall: 7.0, (Listening-7.0, Reading-6.0, Writing-6.0, Speaking-8.0)