

Khalid Hasan

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EDUCATIONAL QUALIFICATION

Bangladesh University of Engineering & Technology

B.Sc in Computer Science and Engineering

– CGPA: 3.28/4.00

Dhaka, Bangladesh

July, 2014 - October, 2018

GRE (311) Verbal: 148, Quantitative: 163, AWA: 3.0

IELTS (7) Reading 8, Listening 7.5, Speaking 6.5, Writing 6.5

RESEARCH INTERESTS

Software Engineering, Cloud Computing, Information Security, Data Science, Programming Languages, Databases

PUBLICATIONS

- **K. Hasan**, P. Chakraborty, R. Shahriyar, A. Iqbal, G. Uddin, ‘**A Survey-Based Qualitative Study to Characterize Expectations of Software Developers from Five Stakeholders**’. In Proceedings of the 15th ACM / IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM) (ESEM '21). Association for Computing Machinery, New York, NY, USA, Article 4, 1–11. PDF. DOI: <https://doi.org/10.1145/3475716.3475787>

RESEARCH EXPERIENCE

A Comparative Study of Software Development Practices in the Context of an Emerging Country

- *Under review*

- Authors: P. Chakraborty, K. Hasan, Dr. R. Shariyar, Dr. A. Iqbal, Dr. G. Uddin

- We focus on understanding the challenges and opportunities within the software companies of Bangladesh, which is an emerging developing country with a large group of skilled software practitioners. We have two objectives. First, we aim to understand the methods and practices adopted and challenges faced by the software companies in an emerging country like Bangladesh. Second, we aim to understand whether and how the development practices and methods in Bangladesh differ from other countries.

Mining Developer Questions about Major NoSQL Databases

Sep, 2017 - Oct, 2018

- Undergraduate Thesis Work

- Supervisor: Dr. Rifat Shahriyar

- The primary aim of this research on major NoSQL databases is to bridge the gap of NoSQL camp and help better understand the challenges, requirements and specific applications of the NoSQL databases. **Paper details - Here.**

PROFESSIONAL EXPERIENCES

Stibo DX Ltd.

Software Engineer

Dhaka, Bangladesh

August, 2020 - Present

- Technologies: JavaScript, Python, Docker, GraphQL, etc.
- Working on the Stibo DX's own product, *CUE*, a content management system.

Intelligent Machines Ltd.

Software Engineer, Back End

Dhaka, Bangladesh

April, 2020 - July, 2022

- Technologies: Django, PostgreSQL, BigQuery, Docker, Kubernetes, Github CI, etc.
- Working on the project to automate the trade merchandising process of a mobile financial service.

InfoSapex Limited

Full Stack Developer

Dhaka, Bangladesh

Nov, 2018 - March, 2020

- Technologies: Django, PostgreSQL, Javascript, Git, etc.
- Worked on the development of an online hotel management software and accounting software.

KEY SKILLS

Programming Language

Python, C, C++, Java, JavaScript

Framework

Django Rest

DBMS

Oracle, MySQL, PostgreSQL

Other

L^AT_EX, JavaFX, Docker, Kubernetes

PROJECTS

Restaurant Search System

2017

- This system allows users to search for restaurants by location, food, etc. and give orders, feedback, rating.
- Framework: Django, Database: SQLite

Restaurant Management System

2016

- This software helps to manage daily activities of a restaurant.
- It helps managers to check available products, employees to get notification about ordered items, users to give orders.
- Front End: JSP-Servlet, Back End: JAVA, Database: Oracle

End to end compiler for C language

Course: Compiler

2016

- Implemented 5 stages of compiler design (lexical analysis, syntax analysis, semantic analysis, optimization, code generation)

Image to text converter

Platform: JavaFX, Tool: Tesseract OCR

2019

- Implemented an image to text converter that can be used in 2 ways which are full image converter and the selected portion of image converter.

REFERENCES

Dr. Rifat Shahriyar

Professor, Department of CSE, BUET

- Undergraduate thesis supervisor