

# Khalid Hasan

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## EDUCATIONAL QUALIFICATION

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**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)** Quantitative: 163, Verbal: 148, AWA: 3.0

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

## RESEARCH INTERESTS

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Software Engineering, Data Mining, Programming Languages, Information Security, Human Computer Interaction, Cloud Computing

## PUBLICATIONS

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- **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

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

- *Under review*

- 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

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### **Stibo DX Ltd.**

*Software Engineer*

**Dhaka, Bangladesh**

*August, 2022 - Present*

- Technologies: JavaScript, TypeScript, Python, Bash, 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.
- Worked 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

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### **Programming Language**

Python, C, C++, Java, JavaScript

### **Framework**

Django Rest

### **DBMS**

Oracle, MySQL, PostgreSQL

### **Other**

L<sup>A</sup>T<sub>E</sub>X, Bash, JavaFX, Docker, Kubernetes

## PROJECTS

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### **Basic Content Publishing Platform**

- Create and update contents with rich text and dynamic text fields which are open for anonymous users with request throttling.
- Used JavaScript, Django Rest, etc.

### **Restaurant Search System**

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

### **Restaurant Management System**

- 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

### **Image to text converter**

- Implemented an image to text converter that can be used in two ways which are full image converter and the selected portion of image converter.
- Platform: JavaFX, Tool: Tesseract OCR

## REFERENCES

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### **Dr. Rifat Shahriyar**

*Professor, Department of CSE, BUET*

- Undergraduate thesis supervisor