

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

**TOEFL (82)** Reading 20, Listening 21, Speaking 19, Writing 22

## RESEARCH INTERESTS

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Software Engineering, Software Testing, Programming Languages, Data Science, Databases

## 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. 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 at The Journal of Software: Evolution and Process*

*Feb, 2020 - April, 2021*

- 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.

**Undergraduate Research Work**

*Bangladesh University of Engineering and Technology (BUET)*

*Sep, 2017 - Oct, 2018*

- Thesis title: *"Mining Developer Questions about Major NoSQL Databases"*

- 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.

## PROFESSIONAL EXPERIENCES

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### **Intelligent Machines Ltd.**

*Software Engineer, Back End*

**Dhaka, Bangladesh**

*April, 2020 - Present*

- 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

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<b>Programming Language</b>	Python, C, C++, Java
<b>Framework</b>	Django Rest
<b>DBMS</b>	Oracle, MySQL, PostgreSQL
<b>Other</b>	JavaFX, JavaScript, Docker, Kubernetes, L <sup>A</sup> T <sub>E</sub> X

## PROJECTS

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### **Restaurant Search System**

2017

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

### **Restaurant Management System**

2016

- o This software helps to manage daily activities of a restaurant.
- o It helps managers to check available products, employees to get notification about ordered items, users to give orders.
- o 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

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### **Dr. Rifat Shahriyar**

*Professor, Department of CSE, BUET*

- Undergraduate thesis supervisor

### **Mohammad Oli Ahad**

*CEO, Intelligent Machines Ltd.*