Khalid Hasan

Dhaka, Bangladesh

✉ 72.khalidhasan@gmail.com   ☐ (+880) 1521496174
in linkedin.com|khalid-hasan   ⌥ github.com/shawontafsir

EDUCATIONAL QUALIFICATION

Bangladesh University of Engineering & Technology   **Dhaka, Bangladesh**
B.Sc in Computer Science and Engineering   *July, 2014 - October, 2018*
CGPA: 3.28/4.00

Cumilla Victoria Govt. College   **Cumilla, Bangladesh**
Higher Secondary Certificate   *July, 2011 - June, 2013*
GPA: 5.00/5.00

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

RESEARCH INTERESTS

o Software Engineering
o Programming Languages
o Databases

RESEARCH EXPERIENCE

Mining Developer Questions about Major NoSQL Databases
Supervisor: Dr. Rifat Shahriyar   *March, 2018 - March, 2019*
- Submitted at APSEC 2019: The 26th Asia-Pacific Software Engineering Conference

o 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.
o This research finds out different challenges and issues faced by the developers of NoSQL databases, which were chosen based on their popularity and an increasing number of posts as well as the various domains the NoSQL databases are used, by mining questions asked on Stack Overflow.
o We have found that connection issues and integration are the most common difficult issues the developer of NoSQL databases faced. We have also found that Cassandra, HBase, and Neo4j are very popular among Java developers, MongoDB and Redis are very popular among node.js developers, and Cassandra and HBase are very popular for big data systems.

WORK EXPERIENCE

InfoSapex Limited   **Dhaka, Bangladesh**
Software Engineer   *November, 2018 - present*

- Working on the development of an online hotel management software and accounting software.
- Framework: Django Rest, Database: PostgreSQL, Front End: JQuery, Vue.js

KEY SKILLS

Programming Language	Python, C, C++, Java, Assembly(x86)
Framework	Django Rest
DBMS	Oracle, MySQL, PostgreSQL
Other	JavaFX, HTML, CSS, JavaScript, JQuery, LaTeX

ACADEMIC 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

COURSE PROJECTS

Emulation of a multi-threading CPU for MIPS instructions with demand paging using NACHOS

Course: Operating System *2017*

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)

OTHER PROJECTS

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.

Volunteer Experience

Hall Food Manager
Titumir Hall, BUET *September - October, 2018*