

# Md Sakib Rahman

Software Engineer

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## Relevant Experience

### Software Developer @ Talent Pro

Aug – Oct 2022 // Dhaka, Bangladesh

- Designed and implemented custom components for use in a low code/no code platform, including configuring properties, behaviors, and logic using vue.js and TypeScript
- Contributed to the platform's development roadmap by suggesting and prototyping new features and functionality
- Led a team of interns in testing the platform and identifying problems, as well as providing guidance and mentorship as needed

### Software Engineer @ Worklife

Jun – Dec 2021 // Dhaka, Bangladesh

- Architected and implemented the backend of highly interactive web applications using Django, including the development of APIs and database schema
- Utilized AWS to deploy the server and manage the platform's infrastructure
- Communicate and collaborate with multi-disciplinary teams of engineers, designers, producers, clients, and stakeholders on a daily basis

### Software Engineer @ D2

Jan 2018 – May 2021 // Dhaka, Bangladesh

- Designed and developed a native Android app for data collection and management using the open source project ODK Collect
- Worked with KoboCat and KoboForm to implement a web-based interface for data collection, management, and analysis
- Collaborated with a team of developers to integrate the Android app and web application, allowing users to seamlessly access and manage collected data from different devices
- Developed and maintained code for in-house and client websites, primarily using React to support the visualization of various data types and formats
- Deployed and managed multiple web applications on AWS using a range of services, including EC2, S3, RDS, and so on

## Skills

### Programming Languages

Python, JavaScript (ES6), TypeScript, Java, Solidity

### Libraries & Frameworks

Django, Flask, React, Vue, Node.js, Express, Tailwind CSS, JQuery, Ethereum, web3.js

### Databases

Postgresql, Mysql, MongoDB

### Tools & Platforms

Git, Selenium, Webpack, Jenkins, Docker, Firebase, Jira, Trello, Truffle, Ganache

### Devops

AWS, GCP

## Projects

### WikiSearch

- Developed a search engine based on Wikipedia's existing dumps dataset and built a user interface using React for testing and demonstration
- Three indexing methods (document vector, inverted, and positional) are implemented, and bi-gram indexing is used for fuzzy search and wild-card queries
- Five ranking methods (Bag of Words, Cosine Similarity, Jaccard, TF-IDF, High-IDF) were used to rank search results and compare their accuracy

### MoneyMap

- Developed a daily expense tracking app that allows users to track their daily expenses, set budgets, categorize, and analyze their spending habits
- Implemented the backend API using Node.js and Express, connecting to a MongoDB database
- Built the frontend using React and use Redux to manage the state of the application to improve the performance & scalability

## Education

### Shanghai Jiao Tong University

2020 – 2023 // Shanghai, China  
Master of Science in Computer Science and Technology  
Ongoing

### American International University - Bangladesh

2013 – 2018 // Dhaka, Bangladesh  
Bachelor of Science in Computer Science and Engineering  
GPA: 3.95/4

## Honors & Awards

- MIT Solve award on behalf of D2  
Solve: <https://tinyurl.com/d2mitsolve>
- Placed 2nd and 3rd in the AIUB Intra Programming Contest in 2015 and 2016, respectively
- Achieved a 3rd place ranking in the IUT ICT Olympiad in 2015 and a 2nd place ranking in 2017
- Attended ACM National Collegiate Programming Contest (NCPC) 2016 & 2017
- Earned a 2nd place in HCI Prototyping Contest 2017 for developing a Smart Campus Concept

## Coursework

- Data Structures & Algorithms
- Developing Android Applications
- Web Technologies
- Web Search & Mining
- Machine Learning
- Statistical Learning and Inference
- Image Processing & Machine Vision
- Software Development & Project Management

## Interests

- Reading blogs and newsletters to stay up to date on new technologies
- Attending tech events & exhibitions
- Venturing to new locations to learn about local cultures and histories

## Language

- English - Fluent
- Chinese - Conversational
- Bengali - Native

## References

### Razin Mustafiz

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