

Mohammad Touhid Hossain Shakil

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EDUCATION

Vellore Institute of Technology, Vellore, Tamil Nadu, India Bachelor of Technology, Computer Science and Engineering	Jul 2015 - Jun 2020 CGPA: 8.12/10
Angelica International School, Dhaka, Bangladesh A 'Level (Edexcel International) O'Level (Edexcel International)	Jan 2000 – July 2014 Marks: 72.6 % Marks: 84 %

TECHNICAL SKILLS

- Programming Skills: Python, C, C++, Java
- Web Technologies: HTML5, CSS3, JavaScript, Jquery, Angular, Node.js, Express.js, PHP, Android, MySQL, MongoDB, SQLite.
- Data Science: Scikit-learn, Pandas, Numpy, Keras, Pytorch, Tensorflow, Seaborn, NLTK, Matplotlib, R
- Software Engineering: Project Management, UI/UX design, Architecture Development, Bug Tracking, Version Controlling, Unit Testing, Integrated Testing.

WORK EXPERIENCE

Tech U Go, Noida, Uttar Pradesh, India <i>Associate Software Architect:</i>	May 2020 - Present
<ul style="list-style-type: none">▪ Played Key Role in specification of Software Process Model, Application Architecture, and Technical Stack.▪ Determined application functions, content, behaviors; Created UI flow (wireframe) for the entire software.▪ Modelled critical software components in the form of different UML diagrams (activity and use case diagrams) and assisted in producing other architectural components like entity relationship, data flow and class diagrams.▪ Assisted in creating architectural, interface, component & data flow designs for all the applications.▪ Setup metrics, methodologies, quality assurance, security and compliance guidelines to be followed for the design, development & testing of the applications.▪ Verified and approved intermediate deliverables.▪ Performed high level testing for the intermediate deliverables, verified and approved unit & integrated testing.	

Novel Wellness Consultancy Pvt. Ltd., Dhaka, Bangladesh <i>Project Manager:</i>	Jan 2020 - Present
<ul style="list-style-type: none">▪ Conducted Market Research to understand business and project scope of Ehealth2all.▪ Created detailed software requirement document for Ehealth2all.▪ Meddled in the formation of service contract and agreement between the Tech U Go & Novel Wellness.▪ Setup the space for communication between the Tech U Go Management & Novel Wellness Management.▪ Negotiated development cost, deadlines, resource allocation, service agreement terms and conditions for development and post development periods▪ Participated in laying out the plan for the entire software development of Ehealth2all	

Durbin News, Dhaka, Bangladesh <i>Co-Founder & Front End Web developer</i>	Jun 2017 - May 2018
<ul style="list-style-type: none">▪ Durbin News was the first of its kind in Bangladesh which picked the most important news from trusted news sources and served them in just 60 words.▪ Designed UI of Durbin News Websites using Adobe XD.▪ Implemented front end part of the website using HTML 5, CSS3 and Angular JS.	

PROJECTS

- **Secure Android Chat Application with RSA Encryption Algorithm**

An Android Chat Application is developed with end to end data encryption using RSA-512 bit encryption algorithm.

- **Food Review analysis using NLP**

A NLP model has been created to scarp food reviews from web and then classify them into positive and negative, identify the most discussed food items and provide suggestion for food items.

- **A VIT-based Social Network**

Created a Web based Social Media Website for VIT students where students have their own profiles, they could make friends, chat with friends in real time, create post and see posts of friends.

- **Predictive Analysis of Stock Market Price using OpenMp**

Concepts of parallel computing has been demonstrated by analyzing large stock market data set predictively using OpenMp.

- **Sports Activity Recognition Using Sensor Units**

A comparative study has been done among different types of classification techniques for classifying data obtained from body-worn magnetic and inertial sensors to understand the applicability of these techniques in context oriented scenarios.

- **Emotion based music recommendation system**

A music player is developed which recommends songs to user by understanding their mood using their facial expressions. Facial Image is taken as an input and then emotion is extracted from it to recommend songs based on it.

RESEARCH

“A Data Science Approach in Quantitative Market Research”

Dec 2019 – May 2020

This research work develops a market research model for the smartphone market. The market is segmented through a clustering algorithm using the data collected from users to analyze market segments quantitatively using Data Science tools to support the decision process of creating a successful marketing strategy.

This Research Project has been done by me under the supervision of Dr. Rajkumar R as a part of Final Year Capstone Project. The process for publishing this research work is ongoing.

AREA OF INTEREST

I am immensely interested in building the design and architecture of large and complex software systems which solves problems of millions by incorporating and applying the state of arts technologies, methodologies and standards. Doing so, requires one to learn the most and implement the best in order to solve critical problems in this age of ever progressing space of technological advancement. Consequently, I want to acquire more knowledge to specialize in this field of expertise to play bigger role than my doing now.

LANGUAGE

English: ★★★★☆ (4/5)

Bengalis: ★★★★☆ (4/5)

REFERENCES

Dr. Rajkumar R, Associate Professor, Dept. of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu-632014. Mobile: +91-9944649355 Email: rrajkumar@vit.ac.in	Dr. Muhammad Rukunuddin Ghalib Associate Professor Dept. of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu-632014. Mobile: +91-92445 18126 Email: ruk.ghalib@vit.ac.in	Mr. Lakshman Kumar, Delivery Head, Tech U Go Pvt. Ltd., A-26, Sector 63, Noida, India. Mobile: +91 9667043645 Email: lakshman@techugo.com
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