

MD Sohail Mahmud

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TECHNICAL SKILLS

- **Programming Languages:** JavaScript, PHP, C++, Java, Python, Dart, Solidity, Bash
- **Technologies and Frameworks:** Node.js, Laravel, Flutter, Express.js, Web3.js, GraphQL, SKLearn, OpenCV, PyTorch
- **Deployment, Cloud and Version Control:** Docker, K8s, Terraform, Jenkins, Codemagic, Gradle, AWS, Git
- **Project Management:** NPM, Yarn, Jira, Notion, OOD, TDD
- **Database, Big data and ETL:** MySQL, SQLite, MongoDB, Redis, PostgreSQL, Oracle, Hive, Hadoop, Spark, Ab Initio

EDUCATION

BSc in Computer Science and Engineering

2019 – 2022

University of Creative Technology

Chattogram, Bangladesh

- **Key Modules:** Advanced Data Structures and Algorithms, Web Programming, Mobile Application Development, Design Patterns, Programming Methodology, Human-Computer Interaction, Cloud Computing, Machine Learning, Blockchain

Diploma Engineering in Computer Technology

2014 - 2017

Chittagong Polytechnic Institute

Chattogram, Bangladesh

- **Key Modules:** Data Structures and Algorithms, OOP, Database System Design, Computer Architectures and Organizations, Operating Systems, Web Application Design and Development, Software Engineering, Computer Networks

PROFESSIONAL EXPERIENCE

Extreme Solutions

November 2020 – December 2022

Software Engineer

Chattogram, Bangladesh

- Responsible for designing and building a robust, scalable monitoring platform to effectively visualize metrics for the Ecosystem. Developed a workflow to process incoming metrics, extract relevant data, and generate visualizations.
- Performed experiments on Cross-platform tools technologies, Amazon RDS, MySQL, SQLite and PostgreSQL databases to identify scalability and costs suited to application. Engineered PostgreSQL to store historical log of events.
- Consumed design patterns to follow code design practices. Containerized application code using Docker for deployment.

Cynergy Solutions

January 2019 - October 2020

Full Stack Developer

Remote

- Responsible for building business applications using predictive time series analysis for consumers.
- Performed migrations on existing tabular insights into analytical dashboards for business applications. The migration resulted in 2x faster response time and 10x less load time on the application server.
- Built end-to-end CI/CD workflow for web application and automated the batch data engineering jobs using Docker, Jenkins and Unix Scripts. Developed graphs using Ab Initio software on Hadoop environment for data extraction tasks.

Automate Infosys

January 2018 - December 2018

Web Application Developer

Chattogram, Bangladesh

- Responsible for designing and developing both greenfield and brownfield web applications across various platforms using technologies such as Laravel, Node.js, and Express.js.
- Performed experiments on code to ensure it meets industry standards, is valid, is properly structured, and is compatible with browsers, devices, or operating systems
- Worked in an agile environment consisting of analyzing users and peer feedback on the submitted work.

- Responsible for building web application using Oracle Apex for consumers that presents adverse effect reports for prescription drugs
- Designed the full architecture of the software stack in order to scale future Food and Drug Administration (FDA) data sets and user input
- Involved in weekly SCRUM meetings to keep track of the ongoing project status and issues

ACADEMIC PROJECTS

imgEncrypt: UCTC IQAC Project Fair | Python, Jupyter notebook

- A sophisticated image encryption system by using AES algorithm to prevent intrusion attacks of imaging systems and misuse of digital images.

posPro: BTEB Project Fair | Java, C++, Python, MySQL, Machine Learning, Deep Learning

- Quickly finalize an order and have faster checkout processing and minimize the chance of human errors.
- Track goods with high accuracy and speed up Inventory management and constructing efficient classifier chains using a chain ordering algorithm.

LabM: Diploma final year project | Laravel, JavaScript, NodeJS, MySQL, REST API's

- Admin side user can manage all the records. The admin plays an important role in the management of this system.
- User can manage transactions such as reservations, borrowed and returned items.

HRIS: Diploma 3rd year project | Java Swing, MySQL, JasperReports

- A desktop application that allows any admin/organization to centralize all members' information and monitor employees, recruitment, hours worked, evaluations, vacations, and attendances from the same place.

PERSONAL PROJECTS

mChatBot: AI-driven automation bot | JavaScript, NodeJS, Laravel, MySQL

webAR: Augmented Reality Experiences | Laravel, JavaScript, PWA AR, MySQL

dMedico: Cross-platform Blockchain-Based Healthcare Application that performs Data and Sentimental Analysis using Machine Learning Algorithms.

redID: Cross-platform digital advertising agency | C++, NodeJS, Flutter, SQLite, Hive, AWS

Ekhon: Multipurpose eServices platform (ongoing) | JavaScript, NodeJS, ExpressJS, Flutter, MySQL, SQLite, AWS, SSLCommerz

DataManager: Data manager for storing and managing datasets | C++, Flutter

dMedico: Cross-platform Blockchain Based Application | JavaScript, NodeJS, Laravel, Flutter, MySQL, SQLite, MongoDB, AWS

App-Settings-Manager: Plugin for opening cross-phone settings permission | C++, Flutter

dHost: A blockchain-based web hosting system

AttestiFi: A blockchain-based fake product identification system

imgEncrypt: A sophisticated image encryption system by using AES algorithm

INDEPENDENT COURSEWORKS

- AWS ML Foundations (offered by Udacity and AWS)
- Full Stack Development (offered by freeCodeCamp)
- Web Application Development (offered by BITM)
- Oracle Database Administration and Development (offered by OTSL)
- Big Data on Amazon Web Services (offered by Learnsector)
- C/C++, Java and Software Engineering Fundamentals (offered by BinaryCare)
- AWS for Solutions Architect Associates (offered by EdYoda Digital University)

HOBBIES

- Tinkering with Rubix Cube.
- Watching TED talks, attending conferences.

References available upon request