

Salman Arefin

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EDUCATION

B.Sc. in Computer Science and Engineering

2015 – 2019 | Dhaka, Bangladesh

Ahsanullah University of Science & Technology

CGPA: 3.336/4 | Total Credit: 161.25

PROFESSIONAL EXPERIENCE

Stibo DX

06/2021 – present | Dhaka, Bangladesh

Software Engineer

- Working as a scrum master in a 9-member team and completed 100% of goals in four back-to-back product releases.
- Developing an AI-driven log monitoring to detect anomalies and boost performance.
- Implemented cache mechanism in a NodeJS microservice, improving its performance by 45%.
- Developed a Python-based image processing service that boosted company clients by 20%.
- Established an integration test suite using Gherkin, NodeJS, Typescript and GraphQL, reducing bug reports by 30%.
- Mentored 5 junior colleagues and presented project updates to 100+ developers across 4 countries enhancing cross-team collaboration.

Computer Ease Limited

08/2019 – 05/2021 | Dhaka, Bangladesh

Junior Programmer Analyst

- Created payroll management system on desktop, mobile, and web platforms which employees of 25+ companies in Bangladesh widely use.
- Developed an attendance management system using ASP.NET, Angular and MySQL which helped the company get 30% more revenue.
- Implemented the company's 1st mobile application for Human Resource Management using Xamarin and REST API.
- Led a team of 4 members and conducted weekly project update and code review sessions.

RESEARCH INTEREST

Machine Learning, Data Mining, Cyber Security, AI, NLP, Software Engineering

THESIS

Feature Selection Based Network Intrusion Detection Using Data mining Classification Algorithms

- Made substantial research contributions, gave key insights, and developed the core codebase.
- Performed a comprehensive review of existing network intrusion detection research and identified key gaps for further study.
- Selected and prepared the NSL-KDD dataset, focusing on data normalization and cleaning for optimal analysis.
- Applied and evaluated various feature reduction techniques, comparing the performance of multiple classification algorithms.
- Assessed the accuracy and effectiveness of each classification model using diverse performance metrics.
- Enhanced network breach detection by integrating advanced data mining techniques and streamlined feature selection.

SKILLS

Programming Languages — Python, TypeScript, JavaScript, C++, C#, Java, PHP, HTML, CSS

Frameworks — NodeJS, Angular, React, ASP .NET, ASP .NET Core, Jest, Jasmine

Databases and Data Management — MySQL, REST API, GraphQL

App Development — Xamarin, Unity Engine

DevOps and Tools — NGINX, Jenkins, Makefile, Shell Script, Docker, Git, JIRA

TEST SCORES

International English Language Testing System 07/2023

Overall Band Score: 7.5

Listening: 7.5 | Reading: 8.5 | Writing: 6.5 | Speaking: 6.5

AWARDS

Winner in Software Category 03/2018

Technomania- Intra Aust Project Show

Winner in Game Development Category 01/2018

National Robotech Festival - Bangladesh ICT Fest

PROFESSIONAL PROJECTS

CUE Front 06/2021 – present

Project for Stibo DX

- Developed a collection of web services that together serve content to client applications.
- Developing an AI-based log monitor which will detect anomalies and boost performance.
- Worked as one of the key developers and contributed to building features for all the Microservices.
- Technologies used: NodeJS, Python, TypeScript, PHP, GraphQL, NGINX, Docker, Shellsript.

CEL HRM 05/2020 – 05/2021

Project for Computer Ease Limited

- Developed Employee Profile, Attendance, and Authentication modules
- Worked on both the frontend and backend part.
- Technologies used: Angular, Typescript, C#, ASP .NET Core, MySQL

Human Resource Management System 08/2019 – 05/2021

Project for Computer Ease Limited

- Developed new modules in different payroll management systems for various clients.
- Implemented this project on all Desktop, Web, and Mobile platforms.
- Technologies used: C#, ASP .NET, Angular, Xamarin, and MySQL.

Canteen Management System (HRM) 01/2020 – 03/2021

Project for Computer Ease Limited

- Developed most of the core modules and also helped co-developers to design and implement.
- Worked on complex meal management modules and reports.
- Technologies used: Angular, Typescript, C#, ASP .NET Core, and MySQL

POS Management 05/2020 – 09/2020

Freelance Project

- Led a team of 3 members and worked on both frontend and backend services.
- Created POS management with all the useful features for a client in the United Kingdom.
- Technologies used: C#, WPF, Web API

PRIVATE PROJECTS

AI-Based Log Monitor (POC)

- Created this as a Proof of Concept for a microservice project in professional work (Stibo DX) that will detect log anomalies and improve performance.
- A log monitor which detects anomalies in the logs incoming in the system.
- Uses Large Language Model (LLM)-based embeddings.
- Also uses DBSCAN clustering to detect anomalies in microservice logs.
- Created using Python, numpy, pandas and sentence-transformer.

Food & Chill

- A web application where users can order food from various restaurants.
- Three different modules for the admin, customer, and restaurant owners.
- Implemented cart management for customers to order food.
- Data fetched from the database to display foods and restaurants.
- Option to upload food item details for restaurant owners.
- Created using ASP.NET, C#, MySQL, HTML, CSS.

Author Management

- A web application based on an Author management system designed for a library.
- Implemented CRUD operation, where authors can be managed efficiently.
- Developed lazy loading routes which helped decrease loading time a lot.
- Implemented pagination which improved performance and made the list more organized.
- Made sure the components used were reusable.
- Created using Angular, Typescript, HTML, and CSS.

CO-CURRICULAR ACTIVITIES

Footballer

Stibo DX Football Team (Participated in Inter Software Company Football Tournament twice)

Organizer

CodeWare18 (Organized a week-long annual program for CSE Department of AUST)

LANGUAGES

Bangla — Native/Bilingual

English — Fluent

Hindi — Conversational

REFERENCES

Dr. Mohammad Shafiul Alam, *Professor*,

Department of CSE, Ahsanullah University of Science & Technology

Email: shafiul.cse AT aust.edu

Ms. Syeda Shabnam Hasan, *Assistant Professor*,

Department of CSE, Ahsanullah University of Science and Technology

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Mir Imtiaz Mostafiz, *Lecturer (on study leave)*,

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