Sadia Tasnim

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EXPERIENCE

Software Engineer   **Feb 2021 - Nov 2022**
[Chaldal](), is a leading online grocery startup in Bangladesh promising quality groceries at the best price. As a Software Engineer I:

- Rebuilt Chaldal's payment system with Chaldal's very own F# and .NET based [framework]() which aims to eliminate the hassle of building the UI and the backend on separate tech stacks.
- Improved Chaldal's user-facing interfaces([Chaldal Web]() and [Chaldal App]()) built on React and React Native supported by the Express and .NET based servers.
- Built the UI for both web and app for a program called 'Referral' reaching over 7.6k users with 7.9k+ referral usages within a month of the release.
- Built the 'prescription' module of a recently introduced store called the pharmacy for both web and app along with designing and implementing the API specifications for it.

Software Engineer Trainee   **15 Aug 2020 - Dec 2020**
[Chaldal]()

- Maintained Chaldal's web and app interfaces which serve more than 13 million users.
- Optimized [Chaldal.tech]() job portal for ease of use.

Software Developer Intern   **Nov 2019 - Dec 2019**
[Open Refactory]()

- Analyzed Java libraries to build a dataset for training automated code correction models.

TECHNICAL SKILLS

Languages : TypeScript, JavaScript, C, C++, F#, C#, Python, Java, HTML, CSS, LESS, Tailwind CSS, Bootstrap, JavaFXML, SQL, Assembly (8086), Shell Script, R, MATLAB, LaTeX
Database : MySQL, Oracle
Tools/Framework/Library : React, React Native, NextJs, MobX, .NET, Azure devOps, Express, Gulp, Service Fabric, Prisma, PlanetScale
Operating Systems : Windows, Ubuntu, XV6
Familiar : Django, OpenGL, Unity
General : Data Structures, Algorithm, Object Oriented Programming

EDUCATION

Bangladesh University of Engineering and Technology (BUET)
B.Sc. in Computer Science and Engineering(CSE)
February, 2016 - February, 2021 (delayed due to COVID-19)
CGPA: 3.53/4.00

PROJECTS

Url Shortener   **Jan 2023**

Working on creating a Url Shortener using [Ticket Server]() and Base62 encoding.
- **Technology/Tools:** NextJs, Prisma, MySql on PlanetScale
- https://github.com/Sadia1505076/url_shortener

Chaldal Tech Job Portal   **Aug 2020**

- **Technology/Tools:** React, CSS
- https://github.com/Sadia1505076/chaldal_job_portal_react

Stock Price Prediction System   **May 2019**

We used Time-Series analytical models to predict Dhaka Stock Exchange (DSE) stock prices. The results were shown via a web interface.

- **Technology/Tools:** Python, Keras, Django, MySQL, HTML, CSS, Bootstrap
- https://github.com/Sadia1505076/stock-price-predictor

Smart Medication Reminder   **July 2018**

Created a smart medication system to help elderly people take their medicines on time. It is a sensory-based system that buzzes at the predefined time until someone comes and takes their medicines. Built using ATmega32 and custom hardware

- **Technology/Tools:** ATmega32, RTC module, Stepper motor, Hex keypad, Lcd, Buzzer.
- https://github.com/Sadia1505076/Automated_medication_system

RESEARCH EXPERIENCE

Undergraduate Thesis (May 2019 - Feb. 2021) with Assistant Professor Dr. Atif Hasan Rahman on **Efficiency in Quantifying Abundance of Transcripts from RNA seq Data**

Worked with Prof. M. Sohel Rahman on **Revisiting hCov Genome Sequences: Analyzing and Looking Beyond** (Mar. 2020 - Feb. 2021) part of which resulted in a paper published in MedInfo 2021

RELEVANT KNOWLEDGE

- Artificial Intelligence • Software Engineering
- Computer Graphics • Data Structures and Algorithm
- Database • Operating System • Computer Networks
- Compiler • Object Oriented Programming Language
- Computer Security • Structured Programming Language

REFERENCE

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