

Partha Sarker

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EXPERIENCE

MarginEdge | August 2024 - Present

Software Engineer 1

- **MarginEdge**: A **monolithic** restaurant management software platform designed to streamline operations by automating invoices, tracking inventory, and integrating with POS and accounting systems
- Contributing to both the **backend** and **frontend** by leveraging industry best practices, while learning and utilizing various **AWS services** to enhance application performance and scalability.
- **Tech Stack**: Spring Boot, React, AngularJS, Postgres, AWS services, Jenkins

Dynamic Solution Innovators | May 2021 - July 2024

Associate Software Engineer

- **Integrated Education Information and Management System(IEIMS)**: An integrated **microservice** system for secondary and higher secondary education. Major modules include registration, form fill up, center assignment, online application, examiner payment, and catering to over **20 million** users of Bangladesh.
- Contributed to building both the **backend** and **frontend**, along with designing the **database schema** to ensure efficient data management and scalability.
- Leverage **DevOps** practices, utilizing **Jenkins** for continuous integration and **Kubernetes** with **Helm** for containerized deployments, ensuring reliable and efficient delivery.
- **Tech Stack**: Spring Boot, NextJS, RabbitMQ, Keycloak, MSSql, Tailwind CSS, Docker, Nginx, Kubernetes, AWS, Jenkins

EDUCATION

Shahjalal University of Science and Technology

2017 – 2021

B.Sc. (Engg.) Computer Science and Engineering

CGPA: **3.76/4**

TECHNICAL SKILLS

- **Java**(*proficient*), JavaScript, SQL, Python, C#, C++, TypeScript, Rust
- **Spring Boot**(*proficient*), **Next.js**(*proficient*), React, Tailwind CSS, RabbitMQ, Storybook, Liquibase, Docker, Jenkins, Kubernetes
- **AWS**: EC2, DynamoDB, CloudFormation, CDK, S3, Lambda, CloudWatch
- Unity, Android Studio, Photoshop, Unreal Engine, Blender

PROGRAMMING RECORDS & ACHIEVEMENTS

Problem Solving

2017 - Present

- Over 500 problems solved on various online judges. [StopStalk](#), [LeetCode](#)

Hackathon | **SUST Tech Fest** | *2nd Runner Up*

April 2019

- **Echo**: An android application to translate one form of language into another (Text, Speech, and Sign).

PROJECTS

- **Linear Equation Solver**: Desktop app for solving linear equations via the **Gaussian Elimination Method**. [\[Github\]](#)
- **AR Girl**: Spawn and control a 3D character in **Augmented Reality**. [\[Github\]](#)
- **Piano Note Practice**: A personal project for practicing **piano sheet notation**. [\[Github\]](#)
- **Word Segmentation**: Segments Bengali handwritten document into words with over **96% accuracy**. [\[Github\]](#)
- **P2P Messaging app**: Chat and share text files over the same WiFi network via **P2P socket programming**. [\[Github\]](#)

UNDERGRADUATE THESIS

A Notification Based Nudge for Handling Excessive Smartphone Use

- Study and design of **App Usage Monitor**. Reduced **over 6%** smartphone usage.
- Conducted an online survey to learn smartphone usage behaviour among individuals.
- Designed a three week experiment for collecting smartphone usage data and validating the effectiveness of our application.