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Nikunja-2, Dhaka, Bangladesh

EXPERIENCE

• **Leads Corporation Limited**   *Feb 2025 – Present*
Junior Software Engineer   Mirpur-14, Dhaka, Bangladesh
  ◦ Currently developing a distributed transaction orchestrator in **Rust (Actix Web)** supporting **Two-Phase Commit (2PC)**, **Saga (choreography)**, and hybrid coordination patterns for a banking solution
  ◦ Integrating observability using **Prometheus**, **Grafana**, and **Elasticsearch** for service monitoring, metrics, logging, and proactive alerting
  ◦ Maintained and enhanced **Notification Alert System application** built on **.NET Core** with background worker, handling deployments, reliability improvements, and feature modifications

• **bdCalling IT Ltd.**   *Jul 2024 - Jan 2025*
Software Engineer & Team Lead   Banasree, Dhaka, Bangladesh
  ◦ Collaborate with UX/UI designers to improve user experiences.
  ◦ Lead frontend and backend development teams for making scalable systems.
  ◦ Deploy applications on DigitalOcean and GoDaddy.
  ◦ Used CI/CD pipelines for automated deployment.
  ◦ Manage and mentor junior developers.

• **bdCalling IT Ltd.**   *Dec 2023 - Jun 2024*
Junior Software Engineer   Banasree, Dhaka, Bangladesh
  ◦ Deployed frontend and backend part in DigitalOcean using Nginx.
  ◦ Maintained communication with client for ensuring project alignment.
  ◦ Integrated APIs' with RTK Query

• **bdCalling IT Ltd.**   *Sep 2023 - Nov 2023*
Software Engineer Intern   Banasree, Dhaka, Bangladesh
  ◦ Deployed backend using Express.js
  ◦ Worked with Socket.IO for real-time messaging and notification system

EDUCATION

• **American International University - Bangladesh**   *Mar 2020 - Jun 2024*
BSc in Computer Science and Engineering   Dhaka, Bangladesh
  ◦ CGPA: 3.92/4.00

PROJECTS

• **Your Capture Awards**   *May 2024 - Dec 2024*
The ultimate destination for photographers, discussing, and creating stunning imagery.
  ◦ Amazon S3 Bucket: For storing images uploaded on different contest.
  ◦ RTK Query: Used for efficient API integration, providing seamless data fetching and caching.
  ◦ Deployment: Hosted on DigitalOcean using Nginx and TMUX for session management.
  ◦ **Live Link:** https://yourcaptureawards.com/

• **Mélange**   *Mar 2024 - Jun 2024*
Mélange is a talent pool of Musical, Digital and Visual artist network spanning continents and skillsets.
  ◦ Socket.IO: Enables real-time notifications, keeping users updated instantly.
  ◦ Agenda: The email queue system is handled by Agenda, ensuring timely and organized email delivery.
  ◦ RTK Query: Used for efficient API integration, providing seamless data fetching and caching.
  ◦ Deployment: Hosted on DigitalOcean using Nginx and TMUX for session management.
  ◦ **Live Link:** https://melangerecords.online/home

- **Russend**

  Russend is a money transfer app designed to facilitate easy and secure financial transactions from Russia to Central African countries.

  ◦ Paydunya API: Integrated to support mobile money transfers via services like Orange Money, and MTN

  ◦ Socket.IO: Enables real-time updates for transaction statuses and notifications to Mobile App.

  ◦ GitHub Actions (CI/CD): Used for Continuous Integration and Continuous Deployment, automating testing, and deployment pipelines.

  ◦ Firebase Push Notification: Integrated for sending real-time notifications to users on transfer status updates.

  🔗 **Live Link:** https://russendapp.com/

  ▶ **Play Store:** Google Play

   App Store: App Store

- **Merchandise Management System**

  University project to learn .NET Framework.

  ◦ Basic CRUD operations are performed with Authentication and Authorization

  ◦ Entity Framework: Utilized for data access, simplifying database interactions.

  ◦ LINQ: Applied for querying data

  ◦ Maintained "SOLID" design principle and "n-Tier" architecture is followed

   GitHub Link: https://github.com/alshakibeelahi/MuMerch_Backend_ASP.NET_Web_API

PUBLICATIONS

C=Conference, J=Journal, P=Patent, S=In Submission, T=Thesis

[J.1] **Optimizing Federated Learning Efficiency: Accelerating Model Averaging with Cluster-Based Approach Using Class Occurrences (FedCCO)**. *Neural Computing and Applications*, Vol. 37, No. 20, pp. 15369–15387, May 2025. Springer. DOI: 10.1007/s00521-025-11289-0.

SKILLS

- **Programming Languages:** C++, C#, PHP, Python, JavaScript, Rust
- **Front-end:** React, Next.js, ASP.Net MVC, Technology 3, Technology 4, Technology 5
- **Back-end:** Express.js, NestJs, ASP.Net Web API, Actix-Web
- **Database:** MongoDB, PostgreSQL, MS SQL
- **VPS/Cloud Hosting:** DigitalOcean, GoDaddy
- **Others:** Git, GitHub Actions, Socket IO, Problem Solving

REFERENCES

1. **Babul Mirdha**
   CEO
   Alor Feri Limited
   Email: babul.mirdha@alorferi.com
   Phone: 01717-983473
   Relationship: Former Consultant at bdCalling IT Ltd.

2. **DR. Debajyoti Karmaker**
   Associate Professor, Head [Undergraduate Program], Department of Computer Science
   American International University - Bangladesh
   Email: d.karmaker@aiub.edu
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