

# RIFAT HOSSAIN

📍 Dhaka, Dhaka City , Bangladesh

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## SUMMARY

I am a Software Engineer with expertise in web development. I have worked with web-based technologies such as React, Next.js, Node.js, MongoDB, and Express. Previously, I have also worked with ASP.NET, Python, and Machine Learning. I've tackled challenges like deploying eCommerce platforms and publishing research on IEEE. I aim to blend my technical skills and business acumen to create impactful solutions while building a career in tech.

## WORK EXPERIENCE

### Nerd Castle Limited I DOHS Bangladesh

JUL 2023 – SEP 2023

Software Engineer Intern ASP.NET

Worked with ASP.NET Core and ASP.NET framework related technologies to enhance application functionality and user experiences.

## PROJECTS

### ChefsKit

- AI-powered recipe generation app built with React, JavaScript, HTML, and CSS
- Implemented exponential debouncing to optimize data fetching, significantly reducing request frequency and improving cost-efficiency when fetching recipe suggestions using the Mistral model.
- GitHub : <https://github.com/rifat328/ChefsKit>

### PCS-Parcel Courier Service (Backend + Frontend in progress)

- Built a scalable courier backend using Node.js and Express to handle role-based access control (admin, agent, customer), ensuring secure data flow and separation of privileges.
- Integrated JWT authentication and cookie-based sessions to manage secure logins, reducing unauthorized access attempts by 100%.
- Implemented DDOS and bot protection with ARKjet, minimizing attack vectors during API exposure.
- Designed and consumed RESTful APIs between frontend and backend, facilitating real-time parcel status tracking and assignment.
- Developed a dynamic frontend with Next.js and Tailwind CSS, delivering a responsive and intuitive user dashboard (in progress).
- Tech Stack: Node.js, Express, MongoDB, Mongoose, JWT, ARKjet, Tailwind, Next.js
- GitHub : <https://github.com/rifat328/parcel-courier-service>

### Assembly-Endgame

- A word-guessing game built with React where each incorrect letter guess eliminates a programming language.
- Live hosted : <https://assemblyendgame-rifat.netlify.app>
- GitHub : <https://github.com/rifat328/assembly-endgame>

### Google Sheets Sales Analysis & Refund

- Developed a Node.js script that connects to a Google Sheet to analyze daily sales and refund trends.
- Identified the highest-performing sales day and calculated the optimal day to minimize refunds, reducing projected business loss.
- Utilized Google Sheets API for real-time data extraction and manipulation.
- GitHub : <https://github.com/rifat328/google-sheet-refund->

### Disease Detection ML Project

- Built a multi-disease detection system using Machine Learning to predict diabetes, stroke, and hypertension from health data.
- Gained hands-on experience with data cleaning, model training, and evaluating predictions.
- GitHub : <https://shorturl.at/eRsLF>

## EDUCATION

### BSc Computer Science & Engineering

American International University Bangladesh

## ACHIEVEMENTS

- Paper Published on IEEE : Smart Roads: Lighting the Way to Safety and Efficiency. <https://ieeexplore.ieee.org/document/10441196>
- Article Published on Poribesh Odidoptor , Sharonika Bisso Poribesh Dibosh 2023 Page: 142. <https://shorturl.at/qo0mO>

## SKILLS

- Programming Languages:** JavaScript, Python, C#, C++, Java, PHP, SQL, HTML, CSS
- Web Development:** React.js, Node.js, Express.js, Next.js, TailwindCSS, ASP.NET Core, ASP.NET MVC, ASP.NET Web API, WordPress
- Database Technologies:** MySQL, MongoDB, Mongoose, Entity Framework
- DevOps & Deployment:** Git, GitHub, Linux, AWS EC2, Vercel, Netlify, IIS Deployment,
- Software Engineering Principles:** OOP, SOLID Principles, N-tier Architecture, Agile Development, SRS Documentation, Debugging & Testing
- Machine Learning / Data Science:** Numpy, Pandas, scikit-learn, Matplotlib
- Cyber Security:** Threat Analyst – Cisco CyberOps Tier 1 (Credly Verified)
- Tools & Platforms:** Figma, Leetcode
- Languages:** Bangla, English
- Other:** Problem Solving (Data Structure And Algorithms)