Md Ridwanur Rahman

Dhaka, Bangladesh | +8801521581815 | ridwanurrahman17@gmail.com
GitHub | LinkedIn

WORK EXPERIENCES

- **Frontend Developer, BrandCloud Inc. Japan [Remote]** — Tokyo, Japan [Jan 2024 - Present]
  - Built and optimized web apps using **Next.js**, **TypeScript**, **Tailwind CSS**, and **tRPC**.
  - Developed scalable, responsive UIs with a focus on performance and user experience.
  - Integrated AI features using **LangChain**, **Claude**, and **LLMs**.
  - Conducted **load testing** and performance profiling to ensure fast load times and smooth interaction at scale
  - Explored optimization techniques such as **Genetic Algorithms** to improve AI-driven features and enhance decision logic in complex frontend workflows.
  - Deployed apps using **Docker** and followed best practices for clean, maintainable code.

- **Backend Developer, BrandCloud Inc. Japan [Remote]** — Tokyo, Japan [Sep 2023 – Dec 2023]
  - Built and maintained web crawlers using **Python** and **Selenium** to collect structured data for internal tools.
  - Designed robust scraping solutions tailored for dynamic websites and anti-bot mechanisms.
  - Containerized crawler environments using **Docker** for consistent deployment and scalability.
  - Wrote and maintained **unit tests** to ensure reliability and data accuracy across scrapers.
  - Collaborated with frontend and data teams to deliver clean, structured outputs from crawled content.

- **Intern, BrandCloud Inc. Japan [Remote]** — Tokyo, Japan [June 2023 – Aug 2023]
  - Built Python-based scraping bots to automate data extraction from platforms like **Google**, **Rakuten**, **Bing**, and **YouTube**.
  - Utilized **Selenium** for handling dynamic web pages and navigating complex DOM structures.
  - Packaged scrapers in **Docker** containers to ensure smooth deployment across environments.
  - Focused on clean, maintainable code with reusable components for multiple scraping tasks.

- **Research Assistant, IAR, UIU** — Dhaka, Bangladesh [Nov 2022 – Jan 2024]
  - Contributed to a research project focused on **lung cancer** by developing **Python** algorithms for **radiomics data extraction** from medical images.
  - Performed data preprocessing, feature extraction, and analysis on large medical image datasets, using advanced image processing techniques.
  - Conducted **data analytics** on extracted features, identifying patterns and correlations relevant to lung cancer diagnosis.
  - Collaborated with the team to visualize and interpret complex data, contributing insights for medical decision-making.
  - Utilized libraries like **Pandas**, **NumPy**, and **Matplotlib** to analyze and present findings, supporting the research team's goals.

TECHNICAL EXPERIENCES

- Development: NextJS, NodeJS, Trpc, Socket.io, Tailwind, MCP, Pytorch, MicroCMS, Postman, Swagger, AWS
- Programming: Python, Javascript, Java, C/C++, Bash, Shell
- Database: MySQL, PostgreSQL, MongoDB, Supabase
- Libraries: Numpy, Pandas, Selenium, WebGL, ThreeJS

SELECTED TEAM PROJECTS

- An In-house GPT Platform for AI Chatting where I worked on API design, integration and adding LLM utilizing RAG architecture with responsive UIs.
    - **NextJS, Typescript, Trpc, Tailwind, MCP, Langchain, Docker, Claude**
    - https://dev.knowledgelinks.ai
- A Guide Application Featuring Detailed Itineraries, Activities and Location-based Recommendations where I worked on API design and integration with responsive UIs.
    - **NextJS, Typescript, Trpc, Tailwind, Stripe, Docker**
    - https://moeguide-app.vercel.app/
- A Platform for Online Test, Getting Results, Certificates and Scholarships where I worked on API design and integration with responsive UIs.
    - **NextJS, Typescript, Trpc, Tailwind, Stripe, Docker**
    - https://suirikyou.vercel.app/

EDUCATION

- United International University, Dhaka, Bangladesh
    - B.Sc. in Computer Science & Engineering CGPA: 3.25/4.00 | [July 2019 – June 2023]

PUBLICATIONS

- Hasin Anupama Azhari, Buddika Srimal Sesath, **Md Ridwanur Rahman**, Niloy Kumar Kundu, Al Mohimanul Islam, Thomas Schrader, Golam Abu Zakaria **A Radiomics-Based Machine Learning Approach for Accurate Subtype Classification of Adenocarcinoma and Squamous Cell Carcinoma [**Under work after first review**]**

ABOUT ME

- C was my first coding language, since then I've had a lot of exposure in different domains of computer science. I like to research new fields and build something interesting that helps push one more skill in my skillset array. I've already worked in different team environments and quite successfully putting my mark by my contributions. AI is heavily changing nearly all the sectors in our life. I'm always open to futuristic opportunities that utilizes AI tools and techniques for the betterment of mankind.