Jamal Mostafa Eahsan

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Skills

Programming: JavaScript, TypeScript, C++, Git,Docker, HTML, CSS, TailwindCSS

Libraries & Framework: NodeJs, Express, React js, Next js, Redux , shadcn, Radix UI,

Languages: Bangali (Native), English (Professional)

Work Experience

Ultra-X Bangladesh Ltd. Dhaka, Bangladesh

Software Engineer *Sep 2021 – Present, Full-time*

- Developed and optimized backend systems using Node.js to create scalable, efficient RESTful APIs and microservices, improving response times by 30% and enhancing overall user experience.
- Integrated frontend frameworks such as React and Next.js with backend services to ensure seamless data flow, achieving a 20% improvement in page load speed and interactivity for user interfaces.
- Created reusable modules for core functionalities like authentication, data validation, and error handling, reducing code redundancy by 35% and accelerating project timelines.
- Enhanced data processing and backend performance through caching strategies, asynchronous programming, and optimized database queries, resulting in a 40% decrease in server load and latency.
- Worked closely with cross-functional teams to conduct code reviews and technical discussions, contributing to a 25% reduction in bugs and fostering a culture of quality and continuous improvement within the team.

Cokreates Ltd. Dhaka, Bangladesh

Implementation Coordinator *Mar 2020 – Sep 2021, Full-time*

- Conducted comprehensive requirement analysis and coordinated project processes for the Bangladesh e-Government ERP project(GRP), ensuring alignment with user expectations and successful milestone execution.
- Facilitated user training, troubleshooting, and feedback collection, enhancing user proficiency and minimizing disruptions throughout the ERP system implementation.

Projects

PCICT | *In Progress*

- An online e-commerce platform where users can purchase used products, evaluate them, check the status of their PCs, and set them up for sale.
- Built and optimized Node.js server-side logic to ensure smooth data processing and response handling.
- Developed core backend services aligned with application goals and user needs to support essential functionalities.
- Focused on writing efficient code capable of handling high traffic, maintaining application responsiveness under heavy use.
- Created APIs to streamline data flow between the front-end and database, ensuring seamless integration and data handling.
- Applied secure data management practices, including implementing email verification via a link and OTP to enhance user account security.
- Designed and integrated secure verification processes, ensuring a reliable onboarding experience through email link and OTP validation.

ETTMS | *In Progress*

- A tracking and status update system for data erase companies in Japan .
- Built and optimized Node.js backend logic to support real-time tracking of devices throughout the data erasure process.
- Enabled functionality allowing companies to hand over incomplete work orders to partnered companies for project assistance, with tracking until devices are returned to the originating company.
- Assigned each device a unique tracking ID, enabling users to monitor status updates by scanning an associated QR code for real-time information.
- Developed an efficient data structure to monitor device status and progress, providing users with detailed process visibility.
- Designed RESTful APIs to ensure efficient data flow between front-end and backend, supporting tracking, real-time updates, and QR code scanning functionality.
- Ensured scalable, high-performance solutions to maintain responsiveness under high data loads, meeting extensive tracking needs.
- Implemented secure data management practices aligned with data protection standards essential for data erasure and collaborative tracking.

VRT | *live*

- Implemented a user-friendly interface for attendees to register and receive a digital event pass. Competitors can register as a team, streamlining group participation.
- Developed a QR code-based attendance system, where volunteers at the venue scan each attendee's code to confirm their presence.
- Created an interactive dashboard for administrators to monitor real-time registration and attendance, utilizing Shadcn components for an optimized experience.
- Leveraged Tailwind CSS to ensure a responsive and visually cohesive interface, enhancing usability across devices.

Education

East West University — Dhaka, Bangladesh
B.Sc. in Computer Science and Engineering; — *Fall 2014 – Spring 2019*

Research Experience

East West University — Dhaka, Bangladesh
Undergraduate Thesis — *Jan 2019 – Sep 2019*

Our proposed Convolutional Neural Network (CNN) model classifies Diabetic Retinopathy stages, achieving notable accuracy improvements. With an accuracy of 75.87%, our model surpasses the 75.12% of Harry Pratt's CNN and the 61.27% accuracy of earlier disease-only models. Supervised by Dr. Taskeed Jabid, this model utilizes an optimized multi-layered architecture for enhanced diagnostic performance.

Awards & Achievements

Idea sharing workshop : Mobile Game and Application Development, ICT Division East West University (Best Group Idea)

Intra University Mathematics Olympiad: East West University Position: 7th Place (100 Participants approx.)