ABRAR SHAMS CHOWDHURY
Software Engineer

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Summary

Artsy and Innovative software engineer with extensive experience in developing web applications using modern frameworks. Proficient in building microservices, crafting seamless user experiences, and integrating machine learning models to enhance software capabilities. Adept at designing and constructing modular systems. Highly skilled at quickly learning new technologies and continuously improving my skills to stay ahead in a fast-evolving field.

Experience

Techdojo Ltd

Software Engineer   08/2023 - Present

Primary Stack: MERN, Next.js, Vanilla.js, Ts, Three.js, Blender, Python

- Investigate, conceptualize, and develop inventive solutions tailored for international clientele.
- Harness external machine learning models and services to enhance the capabilities of the software we develop.
- Continuously explore cutting-edge technologies and maintain flexibility in technology stacks, prioritizing project specifications and timely delivery above all else.
- Build Web apps, Vr apps, Mobile apps, prioritizing research and innovation.

Bioforge Health Systems Ltd

Software Engineer   11/2020 - 07/2023

Primary Stack: React.js,Node.js, Express, MongoDB, PostgreSQL, Material UI

- Design and construct modules for an integrated hospital management system, primarily utilizing a microservices architecture.
- Develop rapid, responsive, and interactive web applications that align with industry standards, with a strong focus on user experience (UX).
- Implement componentization and application structuring using React.js to optimize development efficiency for both myself and my team. Prioritizing readability, reusability and scalability.
- Engage in system design dialogues, emphasizing scalability, system flow, user requirements, and data management priorities

Bioforge Health Systems Ltd

Product Designer   10/2019 - 09/2020

- Design and build medical IoT devices (hardware)
- Make sketches for rapid idea generation and Translate sketches into 3D models using Autodesk 360
- Build scaled-down models using 3D printing and other crafting techniques
- Bring the product to life with 3D printing, CNC cutting, Molding and also working with external vendors

Education

Independent University Bangladesh

BSc in Computer Science & Engineering   01/2015 - 01/2021

Skills

Programming & Development: JavaScript, React, Next.js, Node.js, Python, TypeScript, Express, MongoDB, PostgreSQL, Firebase,Three.js, HTML, CSS, GSAP, Material UI, etc.

Machine Learning Integration: OpenAI, Gemini, Amazon Polly, Hugging Face.

3D Modeling & Animation: Blender, Character Creator 4, Mixamo, AutoCad 360.

UI/UX Design: Figma, Photoshop, Illustrator, Procreate.

Others: Git, GitHub, MS-Office tools

Key Achievements / Certifications

MIT SOLVE

Winner of the MIT SOLVE challenge, recognizing innovative solutions for social entrepreneurship.

Uni Rover Challenge

Ranked 10th in the University Rover Challenge, demonstrating advanced engineering and teamwork capabilities.

Film Contest

Runner-up in an inter-university film contest focused on biodiversity conservation, highlighting creativity and social engagement.

COMPLETE WEB DEV BOOTCAMP Udemy

RESPONSIVE WEB DESIGN
Free code camp

JS ALGO AND DS
Free code camp

Other Experience

American Center Dhaka (MakerSpace)

Volunteer Teacher   2017 - 2018

A creative hub with state-of-the-art tools, enabling hands-on STEM learning and technical skill development.
- Prepare and deliver programming, robotics, and 3D modeling workshops for students.
- Design curriculum and engaging demos to simplify technical concepts for hands-on learning.

Youth Project BE

Head of Project Implementations   2014 - 2017

A youth organization hosting annual STEM competitions, social events, and donation drives.
- Design and execute annual STEM-based competitions and events, including end-to-end planning and delivery.
- Lead and coordinate a core team and manage large groups of volunteers to ensure smooth event operations.

References

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