Md. Al-Emran

Senior Software Engineer

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Summary

Highly accomplished and results-driven **Senior Software Engineer** with over 5 years of extensive experience in architecting, developing, and deploying scalable, high-performance web and mobile applications. Possesses deep expertise in **Full-stack JavaScript development**, including modern frameworks such as **Node.js, NestJS, Express.js, React.js, Next.js and GraphQL**, complemented by robust database management skills (**MongoDB, MySQL, PostgreSQL**).

Proven ability in **backend optimization, microservices architecture, and cross-platform mobile development using React Native**. Well-versed in **DevOps methodologies**, including CI/CD pipelines (**GitHub Actions**/**Jenkins**), containerization (**Docker**), orchestration (**Kubernetes**), and cloud infrastructure (**AWS/Azure/GCP**). Adept at leading development teams, improving system reliability, and implementing best practices for scalable, maintainable, and secure software solutions.

Technical Skills

- **Programming Languages:** JavaScript, TypeScript, Python
- **Backend Frameworks:** Nest.js, Express.js, Node.js
- **Frontend Frameworks:** React.js, Next.js, Vue.js, Nuxt.js, TailwindCSS, Shadcn, MUI, Ant.d
- **Mobile Frameworks:** React Native, React Native Re-animated, Gluestack-UI
- **Databases:** MongoDB, MySQL, PostgreSQL
- **DevOps:** AWS, CI/CD, GitHub Action, Jenkins, Docker, Kubernetes, Microservices
- **Other Technologies:** GraphQL, Redis, RabbitMQ, Socket.io, Django, DRF, FastAPI

Professional Experiences

Nifty IT Solution LTD., Karwan Bazar, Dhaka

Senior Software Engineer   **March 2024 – Present**

- Led backend development for mission-critical financial applications, ensuring robust data processing and API performance, while also spearheading mobile development projects.
- Optimized a financial analytics application, achieving a **50% performance improvement** through advanced caching and algorithmic enhancements, enabling real-time decision-making for finance clients.
- **Built** the Denowatts React Native application from inception, successfully **launched it on both the Apple App Store and Google Play Store**, reaching a broad user base.
- *Website:* https://niftyitsolution.com/
- *Backend Project Example:* https://denowatts.com/

Jatri, Gulshan 2, Dhaka

Senior Software Engineer   August 2021 – February 2024

- Led a team of 3-5 backend developers for Jatri's Water Transport Project, providing technical leadership, architectural guidance, and mentorship, resulting in the successful deployment of key modules.
- Conducted comprehensive code reviews for **over 150 pull requests**, reducing post-deployment bugs by **20%**, and designed efficient database schemas that **improved** data retrieval speeds by **15%** for robust and scalable backend solutions.
- Contributed to **5 major frontend projects**, impacting **hundreds of thousands of users**, utilizing React.js, Vue.js, and Nuxt.js, demonstrating versatility across multiple frontend technologies.
- *Website:* https://www.jatri.co/

Key Projects:

- **Backend:**
  - Water Transport (Lead, Nest.js, MongoDB, GraphQL, Socket.IO)
  - Intercity New Panel (Nest.js, MongoDB, GraphQL)
  - Intercity Old Panel (Express.js, MongoDB)
- **Frontend:**
  - Jatri Rental (React.js) - https://rental.jatri.co/
  - Jatri Ticket (Nuxt.js) - https://ticket.jatri.co/
  - BRTC Online Ticketing System (Government Project) (Nuxt.js) - https://ticketing-brtc.gov.bd/
  - Jatri Intercity Admin Panel (Vue.js)

BlueBay IT Limited, Sonir Akhra, Jatrabari, Dhaka

Junior Software Engineer   June 2021 – July 2021

- **Engineered** the entire backend infrastructure, comprising **over 30 RESTful APIs**, using Python, Django, and Django Rest Framework, which successfully processed **up to 1,000 orders per day** and supported **100+ active vendors**.
- Ensured the solution's scalability to handle **up to 5,000 concurrent users** and maintainability, **reducing critical bug resolution time by 25%**, contributing to a seamless user and vendor experience.
- Website: http://bluebayit.com/

Oshud Sheba, Uttara, Dhaka

Frontend Engineer (Intern)   July 2020 – October 2020

- Contributed to the ReactJS-based Admin Portal Website, implementing **5 new features** and **improving** page load times by **10%** leveraging Redux for state management, and a NextJS-based e-commerce website that served **thousands of daily users**.
- Gained hands-on experience with pure HTML, CSS, SCSS, and JavaScript-based web development, contributing to **over 10 web pages**.
- *Website:* https://oushodsheba.com/

Education

B.Sc. in Computer Science and Engineering   2017 - 2020
Southeast University
- Major in Software Engineering and DevOps
- Thesis in Optimal Group Formation using Machine Learning
- Result: 3.74 out of 4.00

Higher Secondary Certificate (HSC)   2013 - 2015
Dhaka Imperial College
- Major in Science
- Result: 5.00 out of 5.00

Secondary School Certificate (SSC)   2011 - 2012
Siraj Mia Memorial Model School
- Major in Science
- Result: 4.94 out of 5.00

Languages

- English (Intermediate)
- Bengali (Native)

References

Md. Monirul Hasan
Senior Lecturer, Southeast University
LinkedIn:
https://www.linkedin.com/in/monirul-hasan

Habibur Rahman
Head of Engineering (Director), Jatri
LinkedIn:
https://www.linkedin.com/in/iamhabibur/