Omar Faruk

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⬡ whereisfarukk | 🌐 whereisfarukk.github.io | in Omar Faruk

Skills

Languages: C/C++, Java(OOP), HTML, CSS, TypeScript, JavaScript, SQL
Framework: ReactJS, NextJS, NodeJs, ExpressJs, Tailwind CSS
Databases: MySQL, MongoDB
Tools: Git, Github, JEST, Cypress, JUnit, Selenium, Vim, Latex, Android, Unity
OS : Linux , Windows , MacOS

Education

Shahjalal University of Science and Technology   Feb 2020 – Dec 2024
B.Sc in Software Engineering   **CGPA: 3.65/4.00**
Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Software Verification and Validation, Operating Systems, Computer Networks, Machine Learning, Artificial intelligence, Computer Graphics and Image Processing

Work Experience

Technext, Bangladesh   Dec 2024 - Present
Software Engineer Intern

- Built responsive, scalable web apps using React.js , Next.js , and CSS frameworks, ensuring clean, modular, and maintainable code.
- Optimized performance with SSR, lazy loading, and code splitting in Next.js , while integrating RESTful APIs.
- Conducted unit tests with Jest and E2E tests with Cypress , identified bugs, and ensured high-quality, bug-free applications through rigorous testing.
- Worked in Agile teams using Git , participated in code reviews, and collaborated with clients to align deliverables with project requirements.

Project Work

- **MindHive:** A full-stack social platform built with Node.js, Express.js, MongoDB, HTML, and CSS. Implemented user authentication & authorization, profile creation, post creation, commenting, liking, bookmarking, and logout functionality. Developed a profile picture upload system using Multer. Gained hands-on experience in backend development, authentication mechanisms (JWT), database management (MongoDB), and building scalable REST APIs. ⬡
- **Online Hall Allocation System:** Revolutionizing campus housing allocation, our user friendly website simplifies the process. Students browse, apply, and track progress seamlessly. Enjoy less stress, more choice, and transparency. It's the future of hall allocation, one click at a time! ⬡
- **Chat with multiple pdf:** Developed a Research Assistant Guide (RAG) project that allows users to chat with multiple provided PDF documents. Users can ask questions based on the PDFs, and the system provides accurate responses using retrieval-augmented generation. Implemented with Python, LangChain, OpenAI, and Hugging Face models, this project demonstrates my skills in integrating advanced AI tools and creating user-friendly applications. ⬡
- **Food Engine:** Developed an Android application focused on efficient train food distribution. The app allows passengers to order food while the train is running, streamlining the food delivery process and reducing congestion in the train. This project highlights my expertise in Android development and my ability to create practical solutions that enhance user convenience and operational efficiency. ⬡

Achievements

- **1300+** problem solved on multiple online judges. 🔗 ,**pupil** on codeforces & top **5** on beecrowd. 🔗.
- **100+** problem solved on LeetCode. 🔗
- **Selected finalist**, Blood donation platform, Bdapps National Hackathon.
- **7th, Divisional Math Olympiad**
- Machine Learning and Deep Learning Specialization on Coursera.

Research & Thesis

- **Thesis:** A Study on Cookies in Bangladeshi Websites
  - Developed CookieBlock browser extension .
  - Used web crawlers and machine learning to classify cookies .
  - Suggested improvements for GDPR compliance and digital law of BD.

Extracurricular Activities

- **Joint Secretary**, SUST Student Association, Feni
- **IUPC Volunteer**,SUST SWE TECHNOVENT
- Mentored 10 high school students on programming and problem solving.

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