MD Farhad Hossain

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EXPERIENCE

Associate Software Engineer, Cefalo AS ↗ — Java, Spring boot, Angular, React.js — Dhaka, Bangladesh / *Mar 2022 - Current*

- Designed and implemented **REST API**s, resulting in a **17%** increase in overall performance.
- Optimized server response time by **15%** by restructuring API and optimizing database queries using **MongoDB** and **PostgreSQL**.
- Increased user engagement by **25%** by revamping the UI/UX using React's **PrimeReact** library and Angular's **Material UI**.
- Collaborate with **European stakeholders** in an **agile development** environment to develop software solutions, review code, fix bugs and contribute to documentation efforts.

SKILLS

- **Algorithms, Data Structures, Object Oriented Programming, Teamwork**
- **Programming Languages**: **C, C++**, Java
- **Frameworks**: Spring Boot, Angular, React
- Version Control System: **Git**
- Work Management Tool: **Jira**

COMPETITIVE PROGRAMMING EXPERIENCE

TEAM COMPETITIONS

- Top **2.2**%, 39th out of 1747 participants, ICPC Dhaka Regional Preliminary 2021, Team: JU_O(n^3)FanClub ↗
- Top **4.3**%, 78th out of 1805 participants, ICPC Dhaka Regional Preliminary 2019, Team: JU_DarkSideOfTheMoon ↗
- **2nd Runner-up,** Bangladesh section, IEEEXtreme 14.0 2020, Team: JuPsychosocial ↗
- Participated in more than **15** regional, national, and inter-university Programming Contests

INDIVIDUAL COMPETITIONS

- **Google Kickstart Round B 2022:** Ranked **540**th out of **7.2k** participants. ↗
- **Meta Hacker Cup 2022:** Ranked **2588**th out of **44.1k** participants(Qualified up to round 2)↗
- **2nd,** Bangladesh section, Leetcode Weekly Contest 187, Handle: thehalfblo0dprince ↗
- **Codeforces**: Top 7.89%, Max Rating: **1641**(handle: thehalfblo0dprince) ↗
- **Codechef**: Top 1.36%, Max Rating: **1913** (username: frdhsn) ↗
- Solved over **2600+** programming problems on different online judges ↗

RESEARCH PROJECTS AND PUBLICATIONS

- Loan Sanctioning System using **NodeJS, ExpressJS, ReactJS, tensorflow.js:** Developed a web-based loan prediction app using machine learning. Users apply for loans and employees predict approval. ↗
- **Psychological Assessment of Autism Spectrum Disorders:** Proposed a 82-question questionnaire to identify sensory impairments, and achieved 89.8% accuracy in identifying ASD using an artificial neural network. ↗
- farhadcodes-a-CP-blog using **Java, Spring Boot, React.js:** Developed a web blog with user authentication, enabling posting, editing, and deleting stories. ↗

EDUCATION

Institute of Information Technology, Jahangirnagar University — Dhaka, Bangladesh
Bachelor of Science in Information Technology; **CGPA: 3.53 out of 4.00** — *Mar 2017 - May 2022*

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Competitive Programming Community, IIT, Jahangirnagar University — Dhaka, Bangladesh
Team Lead & Senior Trainer — *Mar 2019 - Current*

- Coordinate contests, and teach programming concepts including Graph algorithms, Data structures, Dynamic Programming, etc.

IEEE Student Branch, Jahangirnagar University ↗ — Dhaka, Bangladesh
Vice Chair — *Jan 2021 - Mar 2022*

- Coordinated and hosted multiple events including IEEEXtreme hackathons.