Md Mosharaf Hossan

Pocatello, Idaho

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Passionate software engineer with 5 years of experience, proficient in backend, frontend, and automated testing. Proven record of managing and delivering projects with a focus on scalability and performance.

Professional Experience

Idaho State University   **Idaho, USA**
Graduate Teaching assistant   *August 2023 – May 2025*

- Developed a VR game that adapts itself based on player's real time heart rate feedback through smartwatch.
- Developed a version of Flappy bird game with real time difficulty modulation using player's heart rate feedback through smartwatch.
- Graded undergraduate projects and assignments in Advanced Algorithms (2 semesters) and Introduction to Programming course.

Sigma Solutions   **Dhaka, Bangladesh**
Senior Software Engineer   *July 2021 – April 2023*

- Led a team of 5 developers in design and development of several SOC automation tools with for Robi Axiata which automates BTS management e.g. real-time status, automatic fault detection, and reporting. It improved SOC team's efficiency by nearly 25%.
- Led a team of 3 developers to automate a UI-based user management workflow with browser automation through webdriver protocol.
- Developed features for smartcomm, a SaaS-based multi-tenant omnichannel customer query management system featuring an integrated Asterisk-based call center solution.

Software Engineer   *March 2019 – June 2021*

- Designed and Developed a inventory system to scrap and store telecom nodes from remote resources periodically.
- Developed RopeAccess, a customized internal operations management system with CRM and task management modules. Conducted requirement analysis, task distribution, functional implementation.
- Designed and implemented RESTful apis for Pixmama- the largest stock photo marketplace in Bangladesh.

Hyper Systems   **Dhaka, Bangladesh**
Software Engineer   *May 2018 – February 2019*

- Built RESTful APIs for myRADAR, a GPS-based vehicle tracking system. Improved refuel detection efficiency by 50%. .
- Collaborated with the design team to develop client-facing features and with the hardware team to create device health monitoring features.

Skills

Languages: JavaScript, Python, PHP, C++, C#, SQL, HTML/CSS
Frameworks: Vue.js, Angular, Nuxt.js, D3.js, Laravel, PHPUnit, Tailwind CSS
Software: MySQL, PostgreSQL, MongoDB, AWS, Git, Docker, Unity

Education

Idaho State University   **Idaho, USA**
M.S. Computer Science (**GPA:** 3.93/4.00)   *August 2023 – May 2025*