Dhaka, Bangladesh
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# Md Mosharaf Hossan
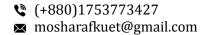
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Professional Experience

**Senior Software Engineer**          **Sigma Solutions, Dhaka, Bangladesh**          **March, 2019 - Present**
- Developed tools to automate radio and core parts of the telecommunication system for leading telecommunication companies in Bangladesh.
- Developed and worked as a maintainer for multiple packages ( robi-equipment-inventory, laravel-mysql-partition, sigma-db-helper, sigma-package-linker, sigma-table, sigma-sheets).
- Refactored codebase and Developed modules for a leading stock photo market to fulfill business requirements.

**Software Engineer**          **Hyper Systems Ltd., Dhaka, Bangladesh**          **May, 2018 - February, 2019**
- Worked in Collaboration with the product design team to build operations management and customer care modules with laravel and vuejs.
- Improved overall product performance by minimizing refuel event errors.

Projects

- **Tower Touch.** An application which performs a thorough real time status checking of ericsson and huawei telecom tower sites. It reduces human efforts by 90%.
  - ➔ Designed architecture in collaboration with another team member. Lead a team of 3 members to develop modules regarding concurrency, real time progress update and command response parsing rules.
  - *Technologies: Laravel, Livewire, Python, FastApi*

- **Pixmama.** Pixmama is the largest stock photo platform in bangladesh. Here professional-grade photographs are bought and sold for a range of purposes, sizes and licenses.
  - ➔ Implemented APIs, payment gateway,  designed ui, and restructured frontend modules.
  - *Technologies: Laravel, AngularJs, Jquery, Mysql, Elasticsearch*

- **myRADAR.** myRADAR is a leading GPS based vehicle tracking system which includes features like live tracking, trip history, destination alert, remote engine lock unlock, fuel monitor.
  - ➔ Increased refuel detection event efficiency by 50%. Performed R&D to improve data communication technique between IOT devices and server. It reduced packet size by 70%.
  - *Technologies: Laravel, MySQL, Jquery, Vanilla js, vue.js*

- **Automated user management system.** Leading a team of 4 to automate a ui based user management system for Robi, second largest telecom service provider in Bangladesh.
  - ➔ Designed architecture and Lead a team of 4 members to develop and ensure on time product delivery.
  - *Technologies: Laravel, php-webdriver*

Language Proficiency

- **English**. Fluent ( IELTS Scores:  **Overall:  8**; Speaking:  7, Listening:  8.5,  Writing:  6.5, Reading:  9 )
- **Bengali**. Native

Skills

- Languages: **PHP**, JavaScript, C, C++, HTML, CSS, SQL.
- Frameworks: **Laravel**, Vue.js, jQuery, **PHPUnit**.
- DBMS: **MySQL**, SQLite, MongoDB
- Tools: Git, redis, Intellij, Vim, Jira, Clickup.
- Solved **350+** problems on different online judges. Codeforces(250+), UVA OJ(70+), Others(50+)

Education

**Khulna University of Engineering & Technology**                    **Khulna, Bangladesh**
B.Sc in Computer Science and Engineering                    April, 2014-March, 2018

Additional Experience

- **Cocreator, Ngx light color picker**, a lightweight color picker package built with angularjs.
- **Mentor**, National High School Programming Contest (NHSPC) (2016, 2017) Khulna.
- **Program coordinator,**  Workshop on "University-Industry Collaboration: Challenges and Opportunities 2017".