

Sharafat Ibn Mollah Mosharraf

Full-Stack Software Engineer & Architect

Highly enthusiastic and skilled full-stack Software Engineer passionate about architecting, designing and performance-optimizing Software Systems. Got 14+ years of experience in professional Software development using several programming languages, tools and technologies, especially in PHP/Laravel stack.

Leading an EdTech startup product that is being used by 150K+ users. Developed and maintained the MailerLite application, a leading Email Marketing platform having 1M+ userbase. Developed an Anti-Worm software (USB Worm Protection) during my undergraduate studies, which reached 10K+ users and received many awards and numerous positive user reviews. I believe in making impactful software.

Looking for a passionate engineering team that love their crafts. They're passionate about clean code, pleasing UI/UX, and solving technical challenges that would ensure smooth operation of the software even at extreme scales.



Key Skills



PHP (13+ yrs)



Laravel (5+ yrs)



jQuery (13+ yrs)



Vue.js (5+ yrs)





React JS (2+ yrs)



Node JS (2+ yrs)

Work Experience

-  **Aug 2023 – Present (1y 8m)** **Eximus Technologies** Dhaka, Bangladesh (Full-Time, Remote)
Technical Lead
 - Leading the large-scale EdTech ERP SaaS startup, the solution comprising of 25+ modules.
 - Developing features and maintaining the product, from frontend UI/UX to backend services, and maintaining infrastructure and monitoring.
 - Leading development team of 4 members.
 - Releasing multiple times per day using CI/CD to swiftly handle client requirements/issues, resulting in delightful customer experience and receiving satisfactory reviews from clients.
 - Scaled application to handle 1K+ concurrent users participating in a 5-minute quiz contest with automated winner determination at the end of quiz.
 - Optimized MySQL queries to improve execution time from a few seconds to only a few hundred milliseconds.
 - Performing code reviews to ensure high-quality clean code.
 - Using static code analyzers (PHPStan, PHPMD and PHPCS) to minimize bugs in code even before it's been committed.
 - Writing automated tests to minimize manual regression tests, thereby reduced testing time, delivery time and post-deployment issues.
 - Led efforts to vastly reduce technical debt in systems, resulting in the reduction of system maintenance time by 70%.**Tech Stack:** PHP, Laravel, jQuery, Vue.js, MySQL, AWS, Redis, CI/CD (CircleCI), Docker, Android/Kotlin
-  **May 2022 – Aug 2023 (1y 4m)** **MailerLite Inc.** San Francisco, California, USA (Full-Time, Remote)
Senior Software Engineer
 - Developed product features and enhancements, from frontend UI/UX to backend services, and maintained infrastructure and monitoring.
 - Optimized backend processes and PostgreSQL queries to improve automation execution time, resulting in 20% fewer parallel automation processing worker nodes during peak times.
 - Integrated OpenAI ChatGPT prompts API to generate catchy marketing email subject lines, boosting end-user signups through the emails for more than 30%.

- Implemented A/B split-testing of popup forms, enabling content marketers choose the right version of a popup design in a couple of days instead of waiting for weeks.
- Migrated activity logs from Postgres-based Spatie ActivityLog to ClickHouse, thereby reducing Postgres DB load as well as making sure of efficient storage of logs in ClickHouse.
- Collaborated with iOS team to develop and implement iOS push notifications, thereby increased positive reviews of the iOS app by ~20%.
- Critically analyzed, reproduced and fixed a critical bug in landing page builders that had been occurring randomly for quite a long time without anybody being able to reproduce and fix it.
- Performed code reviews to ensure high-quality clean code.

Tech Stack: PHP, Laravel, Laravel Nova, Laravel Horizon, Vue.js, PostgreSQL, Redis, Elasticsearch, CI/CD (Github)



Mar 2019 – Oct 2021 (2y 8m) **Bangladesh Computer Council** Dhaka, Bangladesh
Software Development Consultant (Full-Time, Onsite)

- Provided Software Development consultation services to the Government of Bangladesh.
- Regularly monitored architecture, design and development quality and progress.
- Worked with development team members to brainstorm solutions, prepare mockups, design workflows, solve technical and coding challenges, and review code.
- Received *Letter of Appreciation* from the Director for outstanding performance.

Tech Stack: Spring Boot Microservices, PostgreSQL, Android/Java, iOS/Swift



Feb 2017 – Feb 2019 (2y 1m) **Backpack Technologies, Inc.** Dhaka, Bangladesh
Software Engineer (Full-Time, Remote)

- Backpack is a Y Combinator-backed Silicon-Valley-based eCommerce startup having 100K+ user-base.
- Developed various consumer-facing components including amazon-like search-filters, as well as back-office logistic support tools that improved eCommerce items delivery efficiency for ~30%.

Tech Stack: Node JS, React JS, PHP, MySQL, AWS, React Native



Dec 2010 – Jan 2017 (6y 2m) **Therap (BD) Ltd.** Dhaka, Bangladesh
Trainee Software Engineer — Senior Software Engineer (Full-Time, Onsite)

- Therap is a large-scale US-based Healthcare Documentation solution comprising of 40+ modules.
- Developed various modules and features; led Android and iOS teams.
- Regularly took interviews for hiring Software, SQA and DB Engineers. Trained 100+ Trainee Software Engineers.

Tech Stack: Java EE, Spring, Hibernate, Oracle DB, Android/Java, iOS/Swift

Education



2018 **Master of Science & Engineering in Computer Science & Engineering** Dhaka, Bangladesh
Bangladesh University of Engineering & Technology (BUET)



2010 **Bachelor of Science in Computer Science & Engineering** Dhaka, Bangladesh
University of Dhaka (DU)




Notable Side Project



2009 **USB Worm Protection** <https://usbwp.sharafat.co.uk>

- An antiworm tool developed during my undergrad studies that served 10K+ users.
- Received many awards by dint of its excellent features, intuitiveness and superb user interface, including *Software Informer Editor's Pick Award*, *Softoxi Top Software Award*, and *Best Software Award* at the CSE Festival 2008 Software Showcase arranged by the Department of CSE, University of Dhaka.



Honors & Awards

-  2012 **Champion — Android Track (Professional Group)** BASIS Code Warriors' Challenge
-  2012 **Editor's Pick Award for USB Worm Protection** Informer Technologies Inc.
-  2011 **Champion — Java Track (Professional Group)** BASIS Code Warriors' Challenge

Trainings & Conferences

-  2019 **Certified Ethical Hacker** EC-Council Dhaka, Bangladesh
 - Gained substantial knowledge of application and network security vulnerabilities, penetration testing and securing applications as well as network infrastructure.
-  2018 **IEEE Intl. Conference on Big Data** IEEE Seattle, WA, USA
 - Presented my research paper "Improving Query Execution Performance in Big Data using Cuckoo Filter".
 - Got armed with vast amount of knowledge in managing, scaling, efficient searching and securing Big Data infrastructure and systems.
-  2015 **Velocity Conference** O'Reilly Media New York, NY, USA
 - Gathered sheer knowledge of performance-optimizing web and mobile apps, image optimization, efficient scaling of infrastructure within budget, and building reliable, resilient, robust and efficient sites and services.
-  2012 **Enterprise Integration with Spring** SpringPeople Software Pvt. Ltd. Bengaluru, India
 - Gained hands-on experience in developing Spring Integration based software solutions covering the topics of JMS, RMI, SOAP, REST, Tasks and Scheduling of Processes, Batch Processing, and Message Filtering, Routing, Transformation, Splitting, Aggregating, Bridging and Chaining.

Academic Research Publications

-  2022 **Improving lookup and query execution performance in distributed Big Data systems using Cuckoo Filter** Springer Journal of Big Data <https://doi.org/10.1186/s40537-022-00563-w>
-  2018 **Improving Query Execution Performance in Big Data using Cuckoo Filter** 2018 IEEE International Conference on Big Data <https://doi.org/10.1109/BigData.2018.8622023>