

Raju Mazumder

Software Architect at Loosemonkies

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Summary

I am a seasoned developer, writing code for last 8+ years. It is important for me to write code for which I feel proud. I start by writing tests that fail, then I write code to make the test pass and lastly I refactor the code to improve it – to taste the sweetness of quality code.

I mostly use Ruby and PHP to talk with my machine, however sometimes Java and Scala also helps me communicate my desires. I have a few storage partners to couple with them - mainly MongoDB and MySQL/MariaDB. And just to make sure they do not get angry on high requests, I ask for help from Memcached and Redis.

While I develop applications, I sometime need to develop application that is accessible from multiple types of clients – regular computers, smartphones, kiosks, etc. In those situations, I opt in for Service Oriented Architecture (SOA) – where I separate different layers of the application so that most reusability can happen (ex: Service Layer, Storage layer, Web Layer, Worker Layer etc.). Sometimes the Service Layer is internal only and sometimes it is exposed to the public as well.

So, where do I keep all my buddies to play together nicely? I use AWS – with a couple of configuration and setup scripts, I am able to deploy a full-scale, high availability, multi-region infrastructure. I am proficient in using AWS's following services: EC2, S3, ELB, ElasticCache, RDS, SES.

Lastly, after all is done and traffic growth is high, the point of scaling comes into play. I apply both the horizontal scaling and Vertical scaling as necessary; I balance the traffic load using ELB and HAProxy; I use Varnish as frontline reverse proxy and keep the web servers only for requests that need to pass through; I distribute heavy processing tasks using message queues to different processing units using Gearman, Resque, and Sidekiq.

So you can hire me as a senior software engineer or as a Team Leader or as a Technical Consultant or invite me for a coffee to discuss #

Experience

Software Architect at Loosemonkies

September 2012 - Present (1 year 8 months)

-- We are strictly following here Joel Test to get score 12. We have development, testing, staging and production environment. So to meet Joel test 2 and 3 I have created deployment script using Capistrano and set up continuous integration server using Jenkins.

- Product owner choose feature to implement. I have to give technical details how to implement that feature and integrate into our system.
- It's a SOA based application. So we have to make sure service always available and scalable.
- We have lots of background processing jobs. So we have Worker layer where all the background jobs processed using Gearman, Supervisor.
- You know as your site grows the traffic will increase. So it is best to prepare for the large user base. We can handle this by increasing server but it is expensive. So have to implement different kind of caching using Memcached, APC to improve server response time.
- You know it will be tough to run and debug an application without log server. So we have setup a Log server using Logstash, Elastic Search, Redis, Kibana, Nginx.
- Testing is very important for me. So I help developers to write test using PHPUnit, Behat, and Cucumber etc.
- I reviewed the code and help the developers how to write Decouple code, how to think about Design Patterns, how to refactor code, how to find out code smell. It is my responsibility to ensure best practices into their code.
- I have taken technical session like Design Pattern, Architect an application, TDD to improve their knowledge.
- Experimenting new Technology like Akka, PHPResque, Monit, Nodejs and some strategically changes into our application design.

Sr. Software Engineer at Tasawr

November 2011 - August 2012 (10 months)

- When I first join, I was working with a Legacy application, which was developed using Ruby on Rails. I have to refactor the application but there was not test coverage. So first I have to write test using RSpec, Cucumber then refactor it. It was developed using Rails 2. So we have to move the application to Rails 3 to get better community support and to get the benefit from Rails 3 feature.
- The application has an API part. I have to improve and enhance the API platform and ensure API working properly.
- Work on performance improvement by reviewing code base and SQL queries.
- Then I have to implement and integrate Single Sign On (SSO) process with some of the applications.

1 recommendation available upon request

Sr. Software Engineer at Right Brain Solution Ltd

January 2011 - October 2011 (10 months)

- Develop SOA based custom drag and drop content management application.
- Develop and architect central e-government portal for my country.
- Developed custom content management and social networking web application for clients.
- Develop large-scale e-commerce portal.

Software Engineer(Lamp) at Right Brain Solution Ltd

September 2008 - December 2010 (2 years 4 months)

- Develop SOA based custom drag and drop content management application.
- Develop and architect central e-government portal for my country.
- Developed custom content management and social networking web application for clients.
- Develop large-scale e-commerce portal.

4 recommendations available upon request

Web Application Developer at KDS Garment Industries Ltd.

December 2007 - August 2008 (9 months)

- Develop and architect online HRM system.
- Develop online reporting system for exiting ERP system

4 recommendations available upon request

Software Developer at E-vision Software Ltd.

June 2006 - December 2007 (1 year 7 months)

- Build Applications using Visual Basic, MSSQL 2000, Crystal Report 8, Java
- Design, Development and Maintenance of large-scale Software.
- Design and Develop Inventory Management software.
- Design and Develop Club Management System
- Client requirement analysis and prepare documentation after completing analysis.

Languages

English

(Full professional proficiency)

Projects

SimplySendBD

October 2012 to Present

Members:Raju Mazumder, Mohammad Emran Hasan, Md. Mahabubul Hasan Masud, Himel Nag Rana, Jahidur Rahman, Syful Islam Noman

SimplySendBD is the easiest method to send money to anyone in Bangladesh. All you need to do is add funds to your free Payza account. Then log in to SimplySendBD.com with your Payza username and password. The hardest part? Deciding how much you want to send.

Hotel Management Web App

August 2011 to October 2012

Members:Raju Mazumder, Ashif Manjur, Muntasim Ahmed, Hasinur Rahman, Wasiqul Huq, Nurul Ferdous

Online hotel booking, reservation and accounting management tool for Saudi clients

Skills & Expertise

OOP

Design Patterns

Scalability

Architecture

Distributed Systems

Software Engineering

SOA

N-tier

Algorithms

Data Structures

Machine Learning

Information Retrieval

Ruby

MongoDB

BDD

Cloud Computing

Web Services

Agile Methodologies

MySQL

Database Design

Test Driven Development

Node.js

Scala

Solr

Hadoop

Capistrano

Amazon Web Services (AWS)

Education

State University of Bangladesh

B.sc, Computer Science and Engineering, 2005 - 2011

Zend Technologies

ZCE, PHP, 2009 - 2009

Activities and Societies: My ZCE yellow page

<http://www.zend.com/en/yellow-pages#show-ClientCandidateID=ZEND010361>

Chittagong Govt. College

B.sc, Physics, 2001 - 2007

Interests

Interested in algorithm, machine learning, cloud computing, distributed processing, scaling, optimizing

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9 people have recommended Raju

"Rock Star Programmer, easy to work with, team player, eager for challenges and above all a friendly person. I find myself lucky to work with such a great co worker."

— **Wasiqul Huq**, *Quality Assurance Engineer, Tasawr*, worked directly with Raju at Tasawr

"Raju is a passionate programmer with a great attention to details. He is very good at LAMP based apps. I wish him success in every step of life."

— **Nurul Ferdous**, *Software Engineer (LAMP), Right Brain Solution Ltd.*, worked directly with Raju at Right Brain Solution Ltd

"Wonderful person to work. Hard worker, Keen to learn latest trends, able to take challenges are key factor of his skills. Most important he is always up to the mark with his commitment. beside his professional skills he is a jolly person and always love to have fun and play game(mostly cricket)"

— **Md. Mahabubul Hasan Masud**, *Sr. Software Engineer, Right Brain Solution*, worked directly with Raju at Right Brain Solution Ltd

"Raju is serious programmer. He worked with me in some web application project. I just depended on him a lots because of his sound knowledge in Web 2.0 technologies. His friendly attitude make him special for team work. Wish you best of luck"

— **SAM Harun**, *Project Manager, Right Brain Solution Ltd*, managed Raju at Right Brain Solution Ltd

"Raju can be called the silent assassin, he always managed to get the task finished on time and without much supervision."

— **Faisal Ahmed**, *Project Manager, Right Brain Solution Ltd*, managed Raju at Right Brain Solution Ltd

"Sincerity, dedication and hard working can make any person to reach in the best level. Every man cann't accumulate those in their life. But I am very happy to see those things in a person who is just starting his carrier like Raju Mazumder. His problem solving ability surprise me, no matter what kind of problem given to him. He is also having good helping mentality, motivation to focus him in a team. I wish him every success in his life."

— **Zahedul Hoque**, *Software Developer, KDS Group*, worked directly with Raju at KDS Garment Industries

Ltd.

"I found him as very quick learner, honest and talented person. good luck."

— **Anupam Dutta**, *Software Developer, KDS Garment Industries Ltd.*, worked directly with Raju at KDS Garment Industries Ltd.

"Why i will write more & more lines about you? in simple word - Innovative thinker, hard-worker, quick learner, dependable & many more."

— **Sadeque Sharif**, *Software Developer, KDS Garment Industries Limited*, worked directly with Raju at KDS GROUP

"He is multiskilled but his speciality is in PHP. He has done a good job in Developing the Web Interface for KDS Group HRM System. As a person he is very co-operative, Good Team Worker. He has many a mile to go in his professional Field."

— **Md. Saiful Islam**, *Asst. Manager - Automation & Systems, KDS Group*, worked with Raju at KDS GROUP

[Contact Raju on LinkedIn](#)