

Riad Ahmed Zakir

Software Engineer

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Profile

I'm a software engineer with three years of experience in the field of web application development. I have been mainly working on front end development with scalable frameworks, with knowledge of some backend technologies. Adept at agile development process with an urge for scale, performance and architectural elegance. Now looking for opportunities to develop myself and my career by working on different environment and technologies. I have worked with backend technologies like C# and Java, dotNet and Spring boot respectively as a freelance developer to build myself as a fullstack developer.

Experiences

Software Engineer

March 2018- Present

Secure Link Service Ltd. (Selise)

Private Wealth Solution

Developed a digital partner portal for a Swiss-based Private Wealth Solutions company, creating a paperless system for partner banks. Solutions included digital forms, e-signature implementations, document management, communications etc.

It also extends to complex Customer relationship management (CRM) digital solution for both business to business (b2b) and business to consumer (b2c).

Tech Stack

- Angular JS, Angular for front end client.
- Various 3rd party npm packages
- Gulp, Grunt for task management and task automation.
- Micro services with .Net
- CI/CD pipeline with Jenkins
- MongoDB
- AWS service, Ec2 as file storage.
- Version Control – Git, Bitbucket
- Project Management – Jira, Following agile development methodology.

Full Stack Developer

myKachaBazar.com

myKachaBazar - A eCommerce solution

Determine business needs and desires by gathering and analyzing information from clients, partners, sales and operations, deliver user-centric results and effectively communicate my insights and plans to cross-functional team members and management.

Managed projects from concept to design, design to prototype (UI/UX ready), technical implementation, maintenance and promotion of the applications, monitor deliverables and ensure timely completion.

Developed and deployed restful api and mirco services.

Developed and deployed eCommerce web application.

Manged the project for maintenance and test automation from both SQA and Developer perspective.

Familiar with deployment process and source control for production ready application.

Tech Stack

- Angular JS for frontend.
- Node for backend microservices with express framework.
- Gulp for build
- Hosted on VPS using IIS, PM2 and Reverse proxy.
- Version Control: Git, GitHub.
- Project management: Trello.

Projects

Genshin Impact Tools

<https://riadahmedzakir.github.io/genshin-impact-tool/home>

A hobby project I'm currently working on built with the latest angular version. The idea is to create tool to make my life easier with the game.The full desciption of the project and it's future plan is listed on the website.

Tech Stack

- Angular framework
- GitHub pages for hosting
- Data scaped from multiple websites to collect relevant data
- Travis-CI for CI/CD pipeline
- Unit test & e2e Testing using cypress and karma

Minimalistic Slack - React

<https://react-slack-24c40.web.app/login>

A slack clone that can create user,channel, send private message, add/remove favs, add media using firebase storage, use emoji. A stateful application created with react-redux. Using firebase realtime database, firebase hosting, secured with firebase rules.

Tech Stack

- React, Semantic-Ui
- Firebase Realtime database, Database security, User management, Hosting

Simple Chatapp

<https://simple-websocket-chatapp.herokuapp.com>

A simple chat up using websocket hosted on heroku. To understand the basics of both websocket and how heroku works.

Tech Stack

- WebSocket – socket.io
- Node - Express
- Heroku for hosting

Authentication & Authorization

<https://github.com/riadahmedzakir/microservice-imp>

Designing a authentication and authourization microservice using Microsoft IdentityServer4 that implements dynamic multitenant registration. Any client can be used to regeister to use the microservice and use future planned generic microservices with the token. The project also includes a generic data service to query.

- Implemented Identityserver4 to get Token using credentials or refresh tokens.
- Multi tenant/client from database as configurables
- Working with custom claims from tenant User
- Custom Role based authorization
- Roles are configurable from database
- Each action uses CustomAuthorizeAttribute to check request permission from database as configurable
- Implement password hassing
- Created user creation endpoint with FluentValidation
- Added self-signed certificate for production enviornment.
- Created client/tenant to create and login with user. - <https://github.com/riadahmedzakir/jwt-token-base-authenticaiton>

Tech Stack

- C# - .Net Framework.
- Following DDD pattern for Data service & Repository pattern for identity service. Moving entity configuration and validation to different repository following SIMPLE principle.
- Angular For Frontend integration

A full fledge microservice architecture - Spring Boot

<https://github.com/riadahmedzakir/spring-java-microservice>

Create a eureka discovery service to automatically register multiple instance of a avaiable service to be used on other micro-services.

Creating first microservice(identity-service) with eureka discovery enabled delegating responsibilities of

1. Create new user (Registration)
2. User login
3. User details
4. User update
5. User delete

Creating second microservice(uam-service) with eureka discovery enabled delegating responsibilities of

1. Password reset
2. Email verification

Using spring could API gateway as a load balancer

Using jwt token to authorize endpoints using gateway filters

Creating a spring cloud config server to centralize configurations

Spring cloud bus to change runtime configuration for all microservices.

RabbitMQ on docker as message bus

Setting asymmetric encrption for token secret

Spring Rest Template For Clientside load balancing

Replacing Rest Template with feign Client to communicate between microservices

Tech Stack

- Java
- Spring boot with multiple mvn repositories.
- RabbitMQ
- Docker, Docker-compose

Expense Planner - Flutter

<https://github.com/riadahmedzakir/flutter-expense-planner>

Creating a simple android app using flutter to learn the basics of the framework.

Tech Stack

- Flutter

Food List - Flutter

<https://github.com/riadahmedzakir/flutter-food-list>

Creating a simple android app using flutter to learn the basics of the framework.

Tech Stack

- Flutter

Ecommercify - Flutter

<https://github.com/riadahmedzakir/flutter-expense-planner>

Creating a simple android app using flutter to learn the basics of the framework.

Tech Stack

- Flutter

eCart

<https://github.com/riadahmedzakir/eCart>

A eCommerce solution using react as front end and spring boot as backend. Implemntng cart service using redis for cached cart and stripe for payment gateway.

Tech Stack

- React
- Spring boot
- Redis
- Docker, Docker Compose

Docker-Kubernetes

<https://github.com/riadahmedzakir/docker-crash-course>

Using docker on development envirimnt to host a dockerized website that contains both frontend client and backend services enabling each container to communicate with each other. Then using kubernetes to manage pods with docker contianers.

Tech Stack

- Simple HTML/CSS for a simple frontend client
- Node for an express backend service.
- Redis as key/value storage to replicate database communication.
- Docker, Docker Compose, Docker Desktop for Windows
- Kubernetes, Docker Desktop Kubernetes service.

Education

Bsc in Computer Science and Enginnering (CSE)

American International University - Bangladesh (AIUB)

CGPA: 3.36 (2014-2017)

Higher Secondary/Secondary School Certificate

Dhaka Residential Model College (DRMC)

CGPA: 4.20 & 5.00 (2011-2013 & 2009-2011)