

Riad Ahmed Zakir

Software Engineer

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riadahmedzakir.github.io/cv-page/home

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Profile

I'm a software engineer with four+ years of experience in the field of web application development. I have been mainly working on front end development with scalable frameworks like Angular and libraries like react. But I pride myself to be a fullstack developer as I have also been working with c# and java. 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 environments and technologies. I have worked with backend technologies like C# and Java, dotNet and Spring boot, and with docker and kubernetes as a freelance developer to build myself as a fullstack developer.

Experiences

Software Engineer

Secure Link Service Ltd. (Selise)

Amberg Technologies

Amberg Technologies is a globally recognized leader in providing railway and tunnel survey solutions. One of its many offerings is the Railtrack survey and analysis. Developed an IOT solution that collects data while inspecting rail tracks using trolley, amu and gnss sensors and translate the defects of the track based on the data, and rendering the data on the tablet for visualization. The tablet app is used for recording various events, identifying defects on track, which is later used to take corrective and preventive actions based on the inspection.

Tech Stack

- React
- Cypress – e2e testing
- Jest – unit testing
- Version Control – Bitbucket
- Project Management – Jira, Confluence, Following agile development methodology.

Mister Loo

Mister Loo designs, constructs and manages public toilet facilities through its tech-enabled service platform at high footfall locations in Asia. Mister Loo has developed a tech-enabled service platform offering an enjoyable customer experience meeting the highest cleanliness standards while ensuring diversity and equality along the entire value chain, regardless of race, gender, or nationality. The ERP application ranges from collecting usage data to visualize day to day revenue to complex customer relation manager that are but not limited to employee management, task manager, calendar etc.

Tech Stack

- Angular, C#
- Cypress – e2e testing
- Jest – unit testing
- Version Control – Bitbucket
- Project Management – Jira, Confluence, Following agile development methodology.

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 micro-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 micro-services 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 a create tool to make my life easier with the game.The full description of the project and its 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 favorites, add media using firebase storage, use emoji. A stateful application created with react-redux. Using firebase real-time database, firebase hosting, secured with firebase rules.

Tech Stack

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

Authentication & Authorization

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

Designing a authentication and authorization microservice using Microsoft IdentityServer4 that implements dynamic multi-tenant registration. Any client can be used to register to use the micro-service and use future planned generic micro-services 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 configurable
- 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 hashing
- Created user creation endpoint with FluentValidation
- Added self-signed certificate for production environment.
- Created client/tenant to create and login with user. - <https://github.com/riadahmedzakir/jwt-token-base-authenticai>on

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 fledged microservice architecture - Spring Boot

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

Create a eureka discovery service to automatically register multiple instance of a available 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 cloud 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 micro-services.

RabbitMQ on docker as message bus

Setting asymmetric encryption for token secret

Spring Rest Template For Client-side load balancing

Replacing Rest Template with feign Client to communicate between micro-services

Tech Stack

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

eCart

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

A eCommerce solution using react as front end and spring boot as backend. Implementing 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 environment 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 containers.

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)