Madhushan Karunachandra

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Personal Profile Statement

I am a Software Engineer, currently working at DXDY. I am passionate about the Software Engineering field and working in a competitive and innovative environment that would allow me to utilize and sharpen my programming and software development skills.

Working experience

- **Software Engineer** (2024 August – Present)
  DXDY
  - Experience in working with .NET based application used in Apparel Industry. It a microservice based workflow system, uses both .net core and .net framework with both MVC and Rest APIs.
  - Worked on improve performance of the application.
  - Working with technologies and tools like SQL Server, Liquibase, Entity-Framework, GitHub, Jira, DevExpress and etc.

- **Software Engineer** (2024 April – 2024 August)
- **Associate Software Engineer** (2022 November – 2024 April)
  Azend Technologies
  - Experience in working with reactive java backend application using Quarkus framework. It is IoT based, multi-tenant, microservice-based web application used in agriculture domain and worked with both REST APIs and Web Sockets. It is utilizing AWS services such as SQS, AWS IoT Core like services integrated with the application. Also worked with the React Frontend of that application.
  - Experienced in working with .net core backend and Angular frontend. It is a multi-tenant, microservice-based web application used in educational domain and had both sides for franchisor and franchise.
  - Experienced in working with Spring Boot backend and React Front end. It is a web-based application using in financial domain.
  - Experience in working with Node.js backend and React Frontend applications.
  - Experienced in working in Agile Development environment.
  - Working with technologies and tools like, Keycloak for Authentication and multi-tenant, Hazelcast for distributed casing and shared data structures, Postgres Timescale DB for working with IoT data, Hibernate, Liquibase, Entity-Framework, Azure Event bus, OpenTelemetry, Docker, AWS, GitHub, SonarCloud, Jira, Azure DevOps and etc.

Education

- **BSc (Hons) in Software Engineering**, Sri Lanka Technology Campus (2020–2024) (**Second Class/Upper Division**)
- Completed Assured Diploma in Information Technology (DiTEC), ESoft Metro Campus, Piliyandala (2019)
- Completed G.C.E. A/L, Central College Piliyandala – 2019
  (Combined Mathematics – B, Physics – B, Chemistry – B)

Skills

Java, Quarkus, Spring Boot, JavaScript, Node.js, Express, React.js (MERN), Angular(MEAN) TypeScript, .NET, Entity Framework, DevExpress, Hibernate, Spring, JSP, Servlets, PHP, Python, Django, jQuery, HTML, CSS, Bootstrap, Tailwind CSS, MySQL, PostgreSQL, Postgres Timescale DB, SQL, mongoDB, knowledge about Restful API, OOP Concepts, AOP, design patterns, Cloud Services, AWS, Distributed Systems, MVC, Micro Services Architecture, Keycloak, RabbitMQ, CI/CD, Docker, Kubernetes, Git, GitHub, Jira, Azure DevOps

Personal Projects

- **Hotel Reservation System (2022)**

    This is MERN stack project based in Micro Services Architecture. This contains MVC model in each service, Authentication and Authorization (JWT token, email verification, etc.), published npm package as a shared library, manage services with docker and Kubernetes, Cluster Ip Service, Setup Development and Production environment in Google Cloud (Google Kubernetes Engine), Vecel to host front end , error handling, backend validation, unit testing, configure a domain for the backend cluster, configure a SSL Certificate to serve through ingress-nginx, and etc. Used Node.js, Express, mongoDB, TypeScript, Docker, Kubernetes (with Minikube), Ingress-Nginx, NATS Streaming Server, Skaffold, Jest, docker hub, bull.js, Redis

- **Pro mentor (2023)**

    This is career networking platform for university students. This is multi-tenant application based on Micro Services Architecture and use Java (Quarkus), MERN stack, Django. MVC model in each service, Authentication, Authorization and tenant handling with Keycloak, email service with AWS SES, published npm package as a shared library, manage services with docker and Kubernetes, Cluster Ip Service, error handling, backend validation, unit testing, CI/CD pipelines with GitHub actions. Used Node.js, Express, Quarkus, TypeScript, Django, mongoDB, Postgress, Hibernate, Repository pattern, Swagger documentations, Docker, docker Hub, RabbitMQ and other number of other tools and technologies. Also, configure a domain for the backend cluster, configure a SSL Certificate to serve through ingress-nginx and backend hosted in Google Cloud (Google Kubernetes Engine).

- More projects – https://kavishkamk.github.io/

Extra-Curricular Activity

- Deputy Head Prefect of Senior Prefects' Guild of Central College, Piliyandala (2018)
    - Organized a project to help 3 schools in rural areas in Galle as prefect Guild with Moratuwa Campus
    - Organized prefects' days, Teachers' days, and section matches like events with our other members of Prefect guild.
    - Organized blood donation camps, and big matches like events with the old boy Society.
- Senior Prefect of Senior Prefects' Guild of Central College, Piliyandala (2017-2018)

References

Mr. Chamindu Munasinghe,
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