

# Madhushan Karunachandra

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## Personal Profile Statement

I am a Java and MERN Stack developer, Associate Software Engineer at AzendTech, 4<sup>th</sup> year undergraduate, who is currently following a Software Engineering Degree. 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

- **Associate Software Engineer - Azend Technologies** (2022 November – Present)
  - Experience in developing reactive applications using Quarkus framework and Mutiny library.
  - Experience in developing Spring boot, MERN stack applications
  - Experienced in designing and implementing Microservices-based architecture in Agile Development environment.
  - Skilled in utilizing AWS services such as SQS, IoT Core, etc. to build scalable and resilient applications.
  - Contributed to creating the architecture documents and architecture designs in a team.
  - Experienced in working with Keycloak, Hibernate, Liquibase, Postgres Timescale DB, OpenTelemetry, Docker, AWS, GitHub, SonarCloud, Jira and etc.

## Education

- **BSc (Hons) in Software Engineering**, Sri Lanka Technological Campus – **Reading** (2020 – 2024)
  - Current GPA: 3.35
    - Software Architectures
    - Programming Concepts
    - Cloud Technologies
    - Virtualization, etc...
- 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), TypeScript, Hibernate, Spring, JSP, Servlets, PHP, jQuery, HTML, CSS, Bootstrap, Tailwind CSS, JavaFX, MySQL, PostgreSQL, SQL, MongoDB, Elasticsearch, AWS, Heroku, knowledge about Restful API, OOP Concepts, AOP, design patterns, Cloud Services, Distributed Systems, MVC, Micro Services Architecture, Keycloak, Docker and Kubernetes, OpenTelemetry

## Professional Training and Qualification

- Google IT Support [Specialization](#) and [Professional Certificate](#), Google (Coursera- 2020)  
This five-course specification covered the basics of troubleshooting and customer service networking, operating systems, system administration, and IT security.

## Projects

- [Hotel Reservation System \(2022\)](#)  
This is MERN stack project based in Micro Services Architecture. 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
- [Web based chat application \(2021\)](#)  
This application included private chat, private group chat, public chat rooms, log in and registration, admin dashboard for analyzing chat application details and generating reports as plots and tables. HTML, CSS, PHP, JavaScript, Bootstrap, jQuery, Ajax, MySQL, R (with RMySQL, dygraphs packages), Ratchet, PHPMailer, and Google Authentication were used to create this application.
- [Bidding System \(2021\)](#)  
This system is a combination of client-server architecture and publisher-subscriber architecture. This server can handle multiple clients (Traders and Companies), communicate through the same network through sockets, contains User Interfaces and this system has the overall basic functionality of a bidding system. This system was created by using Java (Network programming).
- 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)
- Treasurer Officer of Buddhist Society of Central College, Piliyandala (2018)

## References

**Mr. H.M.D.P Bandarathilake,**  
(Reading MPhil (PGIS, SL), MSc in Industrial Mathematics (PGIS, SL), BSc (Hons) in Mathematics (Kelaniya, SL), Research Assistant, Faculty of Science & mathematics, Sri Lanka Technological Campus | SLTC, Meepe, Padukka, 10500, Sri Lanka.  
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