

# Madhushan Karunachandra

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## Personal Profile Statement

I am a MERN Stack developer, 3<sup>rd</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.

## Education

- **BSc (Hons) in Software Engineering**, Sri Lanka Technological Campus – **Reading** (2020 – 2024)
  - Current GPA: 3.35
    - Object Oriented Programming
    - Programming Concepts
    - Communication Protocols and Models
    - 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

React.js, Node.js, Express (MERN), Java, JavaScript, TypeScript, JSP, Servlets, PHP, jQuery, Maven, HTML, CSS, Bootstrap, Tailwind CSS, JavaFX, MySQL, SQL, MongoDB, Eclipse, Postman, XAMPP, Heroku, knowledge about Restful API, OOP Concepts, design patterns, Cloud Services, MVC, Micro Services Architecture, Docker and Kubernetes

## 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

- [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).

- [Ticket hub \(2022\)](#)

This is MERN stack project based in Micro Services Architecture. Authentication and Authorization, manage services with docker and Kubernetes, Setup Development environment in Google Cloud, error handling, backend validation, unit testing and etc. Node.js, Express, mongoDB, TypeScript, Docker, Kubernetes (with Minikube), Ingress-Nginx, Skaffold, Jest and few other technologies and languages used to develop this project.

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

## Extra-Curricular Activity

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- 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

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**Mr. H.M.D.P Bandarathilake,**  
(Reading MPhil (PGIS, SL), MSc in Industrial  
Mathematics (PGIS, SL), BSc (Hons) in Mathematics  
(Kelaniya, SL),  
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