



Ishara Madusanka

Software Engineer

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PROFESSIONAL SUMMARY

A dedicated Software Engineer with experience in developing scalable web applications using Next.js, NestJS, Angular, and Spring Boot within a microservices architecture. Proficient in cloud technologies, including AWS and Azure, and skilled in database management with PostgreSQL and SQL. Passionate about optimizing performance, implementing complex algorithms, and enhancing user experiences through intuitive UI/UX designs. Recognized for problem-solving abilities. I possess excellent interpersonal and communication skills, allowing me to easily collaborate and work with others. With these qualities, I am confident in my ability to make a positive impact and contribute to the success of any organization.

SKILLS

Data Structures and Algorithms

Programming Languages

Frameworks / Libraries

Web Technologies

Database systems

Cloud & DevOps

Version Control / Practices

Testing

: Typescript, Javascript, Java, SQL

: Nest Js, Next Js, React Js, Angular, Spring Boot

: Tailwind, RESTful APIs, Microservices

: PostgreSQL, MySQL, MongoDB

: Azure, AWS, Docker, Kubernetes, CI/CD, Github actions Jenkins

: Github, Bitbucket

: Jest, JUnit, API testing (Postman, Swagger)

WORK EXPERIENCE

Circles Life - Software Engineer | May 2025 - Present

- SpringBoot , RabbitMQ, GitLab, MySQL, Grafana

Avonet (Pvt.) Ltd. - Associate Software Engineer | Sept 2024 - May 2025

- Developing and maintaining scalable applications using NestJS, Next.js, SQL, PostgreSQL, and Azure.
- Collaborating with cross-functional teams to enhance system performance and reliability.
- Managing version control and CI/CD workflows with Bitbucket.

Sezenta (Pvt.) Ltd. - Associate Software Engineer | April 2024 - Sept 2024

- Develop fullstack apps using Next.js, NestJS, Angular, and Spring Boot within a microservices architecture.
- Integrated multiple AWS services, including Cognito and S3, for secure cloud solutions.
- Engineered complex algorithms, including an Australian postal fee calculator, to optimize logistics operations.

Sezenta (Pvt.) Ltd. - Trainee Software Engineer | Sept 2023 - March 2024

- Develop Fullstack Applications with NextJs, NestJs, TypeORM, PostgreSQL

ACHIEVEMENTS

- Dean's List Certificate (2021) [view](#)
- Mini hackathon 1st place (2023) [view](#)
- CodeCon hackathon 6th place (2023) [view](#)
- Guest Speaker ITP Guide 7.0 (2024) [view](#)
- Research Paper - Eyezen [view](#)

EDUCATION

Bsc. Hon's in Information Technology Specialising in Software Engineering

Institution: Sri Lanka Institute of Information Technology | 2021 June - 2025 June | CGPA - 3.5

G.C.E. A/L

Richmond College - Galle

Chemistry - B Biology - C Physics - C

PROJECTS

LexAyudha - Dyslexia and Dyscalculia Rehabilitation Tool

Developed an AI-powered rehabilitation tool to assist individuals with dyslexia and dyscalculia, using React.js for the frontend and a Flask, Express.js backend. Implemented an emotion detection model based on the Xception architecture and a speech phase detection system leveraging a hybrid CNN-RNN model. Designed a custom emotion classification algorithm to accurately detect user emotions and provide adaptive interventions. Utilized microservices architecture for scalability and integrated SendGrid for automated communication. LexAyudha delivers a personalized rehabilitation experience using advanced AI and speech recognition.

MaxxLink - Central Inovation

Designed and developed a BOM (Bill of Materials) management system to streamline and automate complex workflows. Integrated Azure AD B2C with Microsoft Graph API for secure user management and authentication. Built using NestJS, Next.js, TypeORM, PostgreSQL, and Bitbucket, ensuring a scalable and maintainable architecture. Implemented role-based access control (RBAC) with a custom user authorization logic and developed a custom tree-view table for enhanced data visualization and navigation. Styled the frontend with Tailwind CSS for a clean and responsive UI.

Big Value Box

Ecommerce platform developed using AWS, NestJS, Next.js, TailwindCss with Ant Design, TypeORM, and PostgreSQL, leveraging a microservices architecture. Designed and implemented a custom postal fee calculation algorithm based on the 3D Bin Packing algorithm, optimizing package allocation and reducing shipping costs. Integrated secure cloud solutions and database management for efficient order processing and tracking.

Eyezen

Developed a web and mobile application focused on enhancing eye health using modern technology and Ayurvedic insights. Built the web app with React and the mobile app with React Native, ensuring a seamless cross-platform experience. Implemented Node.js and MongoDB for backend services, enabling secure and efficient data management. Integrated Google Maps for location-based services and Firebase for media storage and real-time updates. EyeZen combines AI-driven insights with expert eye care knowledge to provide a comprehensive vision care solution.

GoTicket

Developed a web and mobile application for seamless ticket booking and public transport management. The web app, built with React, Spring Boot, and MongoDB, allows managers to oversee users, monitor income, and analyze traffic trends. Integrated QR scanning for ticket validation and Firebase for real-time data updates. The mobile app, developed using React Native, enables users to purchase tickets and top up their credit accounts effortlessly. Leveraging Spring Boot for backend services, the system ensures high performance, security, and scalability, improving public transportation accessibility and efficiency.

REFERENCES

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Avonet Technologies

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Mr. Dilantha Silva

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