

# SUNETH MADHUWANTHA

## SOFTWARE ENGINEER

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### SUMMARY

Responsible, dedicated, and Results-oriented software engineer with 1+ years of experience specializing in Full-Stack software development. Strengths include proficiency in a wide range of programming languages, including Java, C#, and JavaScript. Well-versed in modern web frameworks. Adept at designing and implementing scalable and maintainable software solutions. A strong background in database management, RESTful API development, and cloud technologies.

### WORK EXPERIENCE

<b>Trainee Software Engineer</b> <i>Pristine Solutions (pvt) Ltd</i>	<b>2023 Jan - 2023 Jul</b> <i>Nugegoda, Sri Lanka</i>
<ul style="list-style-type: none"><li>Involved in the project as a full-stack developer, utilizing Angular, SAP HANA XSJS, Bootstrap, and SAP HANA Database to build a Petty Cash solution for streamlined financial processes.</li><li>Improved project efficiency through module reuse, actively participated in code reviews, and gained hands-on experience in server management, Agile methodologies, cloud platforms, CI/CD pipelines, and microservices architecture.</li></ul>	
<b>Associate Software Engineer (Contract)</b> <i>MetaDew Technologies (pvt) Ltd</i>	<b>2024 Sep - 2025 Sep</b> <i>Remote</i>
<ul style="list-style-type: none"><li>Developed and maintained hotel and restaurant management systems, along with client websites, using the MERN stack, SQL, Java, and JWT authentications, ensuring optimal performance and scalability. Customized solutions to meet specific client needs, provided technical support, created comprehensive documentation, and conducted user training for seamless adoption.</li><li>Engaged directly with clients through calls, on-site visits, and product demonstrations while contributing to social media marketing efforts to enhance international reach.</li></ul>	

### EDUCATION

<b>B.Sc. (Hons) in Information Technology</b> <i>University of Moratuwa - GPA 3.21/4.00</i>	<b>Jan 2020 - Dec 2024</b>
<b>GCE Advanced Level (Physical Stream)</b> - Royal College Polonnaruwa	<b>2018</b>

### TECHNICAL SKILLS

- Languages:** Java, C, C#, Python, JavaScript, TypeScript, HTML, JSON, CSS, Sass
- Web Development:** React, Angular, Express.js, Node.js, Bootstrap, Tailwind, MUI, Next.js, ASP.NET, Spring boot
- DevOps and Cloud:** AWS, Docker, Kubernetes, CI/CD
- Database:** SQL(MS-SQL,MySQL,SAP HANA,PostgreSQL), MongoDB
- Tools:** Git, Postman, Jira, Trello, Figma
- Others:** Data Structures and Algorithms, Object Oriented Programming(OOP), Agile, SOLID, Design Patterns, Debugging, Microservice

### RESEARCH PROJECT

<b>Reforming Damaged Sinhala Handwritten Documents Using Image Processing &amp; ML</b> <i>Final Year Research Project</i>	<b>2024</b>
<ul style="list-style-type: none"><li>Developed a solution leveraging computer vision and machine learning to reconstruct damaged Sinhala handwritten documents through advanced image processing techniques. Implemented damage detection, reconstruction, and character prediction to restore degraded text.</li><li>Utilized a Convolutional Neural Network (CNN) to enhance and digitize characters, producing a complete and accurate digital version of the documents. <b>ML   NLP   Open CV   Python   Colab   Keras</b></li></ul>	

## SOFTWARE PROJECTS

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### Online Petty Cash Management System

2024

- Full Stack Developer for a Petty Cash solution, automating requests, approvals, and management.
- Improved efficiency by reducing sprints through module reuse, handling front-end development, backend Synchronizer model creation, API development, and SAP integration.

Angular | SAP HANA | XSJS | Bootstrap

### User Management System

2024

- Developed a secure user management system with features like registration, login authentication, and CRUD operations for managing user profiles. Enabled admins to efficiently add, update, or remove users, ensuring seamless control over user accounts.
- Advanced Functionalities: User search, PDF report generation with download functionality, and file management for uploading/viewing PDFs and images.

React | Mongo DB | Node | Express | Tailwind CSS

### Inventory Management System

2025

- Developed an inventory and invoicing system using .NET, C#, Angular, and SQL Server for a computer retail shop. Implemented user and inventory CRUD, invoice generation, and advanced search. Ensured robust frontend-backend integration, error handling, and data validation using Angular services and HTTP communication, improving operational efficiency and reliability.

C# | .NET Web API | Microsoft SQL Server | Angular

## UNIVERSITY PROJECTS

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### Online Buying and Selling System

**module: Industry Based Project**

- Developed a platform connecting local Sri Lankan sellers with foreign buyers for indigenous products. Integrated features like product publishing, buying, customization, auctioning and reviews. Enabled direct communication between sellers and buyers to streamline transactions.

React | Mongo DB | Node | Express | Tailwind CSS

### Floating Garbage Removal & Managing System in Drains

**module: ICT Project**

- Designed the blueprint of the machine and the 3D model using Blender.
- Aimed to tackle challenges in waste management by developing a system for removing garbage from drains inaccessible to manual collection. A specific contribution centered on implementing water level sensors to precisely measure drain water levels, thereby enhancing the system's overall functionality.

C | Atmel Studio | Atmega32 Microcontroller | EasyEDA

## RESPONSIBILITIES AND ACHIEVEMENTS

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- Selected to semi-final in Thinkwave 3.0 2021 - Biggest ideathon competition Organized by AIESEC in UOM
- Hack Moral 4.0 2022 - Organized by INTECS, UOM - Participant
- CODE RUSH 2020 - Organized by INTECS, UOM - Participant
- Starting members of Mora E-Sports Club

## REFEREES

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### Dr. Lochandaka Ranathunga - Department of Information Technology

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Faculty of IT

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### Mr. Chamod Dilshan- Senior Software Engineer

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Pristine Solutions(pvt) Ltd.

Nugegoda