

Buddhima Vilochana

Associate Software Engineer

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SUMMARY

Final-year Software Engineering undergraduate with internship experience in full-stack development. Skilled in building scalable web applications using MERN stack, PHP, .NET, and Angular frameworks. Proficient in REST API development, database design, Azure cloud, CI/CD and Agile methodologies. Strong foundation in SDLC, software testing, debugging, performance optimization, and problem solving. Seeking an Associate Software Engineer role to contribute to innovative projects.

SKILLS

- Programming Languages:** JavaScript (ES6+), TypeScript, Java, Python, C, C++
- Frontend:** ReactJS, NextJS, Angular, Flutter, HTML, CSS (Tailwind, Bootstrap), SASS, SCSS
- Backend:** Node.js, Express.js, .NET, PHP, .NET core
- Databases:** MySQL, MSSQL, MongoDB, SQLite, Firebase
- Tools & Platforms:** Version Control (Git/GitHub), Docker, Azure Cloud, Postman, VS Code
- Concepts & Practices:** OOP, Data Structures & Algorithms, RESTful APIs, Microservices Architecture, Agile Methodologies (Scrum), Software Development Lifecycle(SDLC), CI/CD basics, API Testing, Unit Testing, Integration Testing, End-to-End Testing

WORK EXPERIENCE

Software Engineer Intern, Nova Corp (Pvt) Ltd | Feb 2025 – Aug 2025

As a Software Engineer Intern, I developed and debugged web applications using MERN and PHP, focusing on user interfaces and RESTful APIs. I performed unit testing, contributed to Agile sprints and code reviews, and assisted in debugging and deployment to ensure reliable delivery.

Contract - Web Developer, illumin-labs | Dec 2024 – Present

As a Contract Web Developer, I design, develop, and maintain web applications, ensuring responsive and user-friendly interfaces. My work involves building and testing features, debugging issues, and optimizing performance for seamless functionality. I actively contribute to the full development cycle, from planning and design to deployment.

Jupiter Gem Web Application

- Developed an online gemstone business platform with product listings, advanced filtering, and order management.
- Implemented secure role-based admin authentication using JWT and built an order management.
- Integrated image upload & preview system using Multer with minimal errors.
- Technologies:** MongoDB, Express.js, React, Node.js, Tailwind CSS, Multer, JWT.

Planet First Web Application

- Developed an eco-focused web platform to promote sustainable living and user engagement.
- Built and deployed a Carbon Footprint Calculator, enabling 200+ users to track sustainability.
- Integrated PHPMailer for contact form and FPDF for automated PDF report generation.
- Implemented dynamic data retrieval components for Cases and Blog sections.
- Technologies:** HTML, Bootstrap, PHP, JavaScript, PHPMailer, FPDF.

React Web Application

- Developed a responsive portfolio website with modern UI/UX using React and Tailwind CSS.
- Implemented project showcase, smooth animations, and integrated contact form with EmailJS.
- Improved Lighthouse performance score by 20% through image compression.
- Technologies:** ReactJS, Tailwind CSS, JavaScript, EmailJS.

GreenGleam Cleaning Platform

- Built a booking management platform with flexible scheduling, real-time validation, and checkout integration, enabling 100+ users to book services with a 99% success rate.
 - Implemented service-type-based discount logic and integrated Google Review widget for customer feedback.
 - **Technologies:** HTML, PHP, JavaScript, MySQL, Bootstrap, WordPress.
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PROJECTS

Orchid Species Identifier (2025)

- Developed a deep learning-based web application that identifies 52 orchid species from uploaded images using convolutional neural network (CNN) architectures.
- Integrated pre-trained model InceptionV3 to achieve high accuracy.
- Built the frontend using Angular and the backend using Node.js, connected to a TensorFlow and Flask based machine learning microservice for model inference.
- **Technologies:** Angular, Node.js, Express.js, TensorFlow, Flask, Python, HTML, SASS, JavaScript

Restaurant Management Service – Food Delivery System (2025)

- Developed a microservice-based food delivery platform with restaurant registration, menu management, and role-based access.
- Implemented owner-level logic, admin approval workflows, and an API Gateway for service routing.
- Built the frontend using React & Tailwind CSS, and performed end-to-end testing with Cypress.
- **Technologies:** ReactJS, Tailwind CSS, Node.js, Express.js, MongoDB, Docker, Cypress.

FieldExpert Farm Management System (2024)

- Developed a farm management web app with crop, pest, and disease tracking features.
- Implemented Sales & Distribution module with CRUD operations and data visualization using Chart.js.
- **Technologies:** MongoDB, Express.js, React.js, Node.js, Tailwind CSS.

Angular Authentication System (2025)

- Developed an Angular frontend with Registration, Login, Dashboard, Forgot/Reset Password.
- Built a .NET backend implementing JWT authentication and password hashing for secure access.
- Designed and managed MSSQL database with stored procedures and optimized tables.
- **Technologies:** Angular, TypeScript, .NET, JWT, MSSQL.

MERN Authentication System (2024)

- Developed a full-stack authentication system with secure registration, login, logout, account verification, and password reset.
 - Implemented JWT authentication, password encryption with bcrypt and email notifications.
 - **Technologies:** MongoDB, Express.js, React.js, Node.js, bcrypt, JWT, Nodemailer.
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ACHIEVEMENTS

Mini Hackathon by MS Club of SLIIT

Oct 2024

Sri Lanka Institute of Information Technology, Malabe

- Led the team to win 3rd place by developing a smart ring application focused on women's safety, allowing users to send emergency alerts and share their location in real time. Designed the prototype and presented the solution to judges.
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EDUCATION

BSc (Hons) in Information Technology – Software Engineering

Oct 2022 - Sep 2026

Sri Lanka Institute of Information Technology, Malabe

- Final year undergraduate

G.C.E Advanced Level Examination 2021

Aloysius' College, Galle

- Physical Science