

CHANUKA JAYARATHNA

Software Engineer | Business Technical Research & Development | UI/UX & Frontend Developer | App, Web & Desktop Solutions | SE Undergraduate

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🌐 <http://www.linkedin.com/in/chanuka-jayarathna>



PROFESSIONAL SKILL

- Business Technical Research
- Design Systems & Thinking
- UI/UX & User Interaction Design
- C#Asp.NET
- Web APIs
- HTML | CSS | Javascript
- PHP | JQuery | XML
- Node/Express | Next js
- Angular | React
- MySQL | MongoDB
- LangChain Concepts

INTERPERSONAL SKILL

- Presentation
- Communication
- Leadership
- Problem Solving
- Teamwork
- Time management
- Flexibility
- Self motivation
- Decision making

TOOL & TECHNOLOGY

- Microsoft Office
- Jira
- Figma
- Visual Studio
- GitHub
- Docker

LANGUAGE

- English
- Sinhala

PROFILE

I'm passionate about developing innovative software solutions that blend technology, design, and strategy. With experience in Web, App, and Desktop development, I focus on Business Technical Research, Design Systems & Thinking, and UI/UX & User Interaction Design to create functional, engaging, and user-centered products.

RESEARCH

AI-Assisted WhatsApp Chatbot for Diabetes Patient Guidance and Monitoring in Sri Lanka

Saegis Undergraduate Research Symposium (SURS) - 2025

Designed an AI-powered WhatsApp chatbot with a clinician dashboard for diabetes management in Sri Lanka, focusing on intelligent patient notifications to enhance remote monitoring and clinical workflow.

[View on Research Paper](#)

Development of a Real-Time Train Speed Control Dashboard for Proactive Elephant-Train Collision Avoidance

Researched elephant-train collisions via literature, expert interviews; designed and developed a real-time dashboard for proactive train speed control and collision avoidance.

[View on Research Paper](#)

A Software-Driven Intelligent Bus Transport Framework for Enhancing Passenger-Driver Experience in Sri Lanka

A software-driven intelligent framework with passenger/driver apps and admin dashboard to enhance Sri Lanka's bus experience, built on extensive research into real-time challenges.

[View on Research Paper](#)

Intelligent Delivery Date Prediction and Alert System for Garment Factories using Machine Learning

Developing an ML-based system to predict garment delivery dates and provide proactive alerts, leveraging merchandising expertise to address real-world production uncertainties.

[View on Research Paper](#)

FEATURED PROJECTS

Full-Stack Airline Reservation System | Angular | ASP.NET Core | MySQL

[View on GitHub](#)

Developed a full-stack airline reservation system using Angular, ASP.NET Core, and MySQL. Implemented flight booking management, and CRUD operations for bookings and flight details. Containerized with Docker for seamless deployment.

Library Management System | C#.NET | MySQL | Desktop Application

[View on GitHub](#)

Developed a desktop application using C#.NET and MySQL for efficient library operations. Features include book/member registration, borrow/return management, reservation handling, fine calculation, and comprehensive search. Implements three-tier architecture with robust data validation and reporting capabilities.

Production and Inventory Management System | Mern stack | Web Application

[View on GitHub](#)

Full-stack web app with product/inventory management, production orders, real-time updates, and role-based access. Used MongoDB, Express, React, Node.js, JWT, and Socket.io for live tracking and optimized performance.

Library Management System | Java | MySQL | Desktop Application

[View on GitHub](#)

Developed a Library Management System desktop app using Java and MySQL. Features include book/member management, borrow/return with fine calculation, and report generation. Implemented MVC architecture and DAO pattern for efficient data handling and maintainability.

Construction Company Website | HTML | CSS | JavaScript | Bootstrap | PHP | MySQL

[View on GitHub](#)

Developed a fully responsive construction company website using HTML, CSS, JavaScript, Bootstrap, PHP, and MySQL. Features include dynamic project/service management via admin panel, contact form with database storage, and a user-friendly interface. Implemented CRUD operations and secure authentication.

WORK EXPERIENCE

Calico (Pvt) Ltd.

Apr 2022 – Sep 2022 · 6 months

Junior Merchandiser

In the apparel industry, I managed the procurement, production, and delivery of materials such as code, tape, and dyed yarn. I coordinated across departments to ensure timely manufacturing and shipment, handled logistics and documentation for DHL, UPS, and FedEx, and developed product plans to meet client requirements. Additionally, I analyzed production challenges and provided performance reports to management to improve efficiency and workflow.

EDUCATION

BSc (Honours) in Software Engineering

2023 – present

Saegis Campus , Sri Lanka.

I am currently a third-year Software Engineering student, actively contributing to projects and research with a strong commitment to learning and innovation. My degree provides a solid foundation in software engineering principles, guiding me to deepen my technical expertise and pursue my passion for creating impactful software solutions.

INTERESTS

Cryptocurrency

Travel

Digital Marketing

Cricket

Reading

Technology

Business

Artificial intelligence

REFERENCES

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