

# Bimsara Wickramanayaka

## Software Engineer Intern

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📍 No: 88, Harigala, Atala, Kegalle

🌐 Bimsara Wickramanayaka

🔄 Bimsara

🔗 Portfolio



### Profile

Motivated undergraduate in the field of Software Engineering with hands-on experience in developing scalable web and mobile applications and integrating AI-driven solutions. Proficient in React, Flutter, and Node.js, with strong problem-solving abilities and a collaborative mindset. Dedicated to delivering user-focused, impactful solutions while continuously learning and expanding technical expertise.

### Education

08/2023 – Present	<b>BSc (Hons) in Computing and Information Systems</b> Sabaragamuwa University of Sri Lanka
2021	<b>G.C.E. Advanced Level - Physical Science Stream</b> Kegalu Vidyalaya Kegalle

### Projects

#### Smart Crop Planner – Mobile Application

(Group project)

- Developed a mobile-first solution designed to assist Sri Lankan farmers by providing AI powered predictions a way to communicate and distribute harvest.
- Implemented predictive models for image-based disease recognition and crop recommendation based on agricultural parameters and implemented AI chatbot for round the clock support.
- Frontend Repository [🔗](#)
- Backend Repository [🔗](#)
- **Technologies:** Flutter, .NET, PostgreSQL, Machine Learning (image recognition & predictive models) | **IDE:** Android Studio, Visual Studio

#### Thinkboard [🔗](#)

MERN-Stack Note-Taking Application

- Developed a full-stack note-taking app with a responsive React + TailwindCSS frontend and secure Express.js + MongoDB backend.
- Integrated Upstash Redis-based rate limiting and optimized production build with Vite for scalable, efficient deployment.
- **Technologies:** MongoDB, Express.js, React, TailwindCSS, Node.js (MERN Stack), Upstash Redis | **Tools:** VS Code, Vite

#### Todo App [🔗](#)

Dockerized Todo Application

- Developed a secure full-stack task management platform with user authentication, enabling users to create, read, update, and delete personalized to-dos.
- Implemented JWT-based authentication with password hashing for secure sessions and Prisma ORM for type-safe database management on PostgreSQL.
- Containerized the application using Docker Compose for seamless local setup, persistent storage, and efficient backend service orchestration.
- **Technologies:** Node.js, Express.js, Prisma ORM, PostgreSQL, Docker | **Tools:** VS Code

## Student Enrollment & Degree Tracking System

*Web Application (Group project)*

- Developed a web platform to manage student enrollment and degree process tracking for the Postgraduate Faculty of the university.
- Implemented PDF upload functionality and designed the dashboard UI to improve administrative efficiency and user experience.
- **Technologies: Laravel, MySQL | Tools: VS Code**

## Wedding Photography Website

*MERN Stack Web Application (Group project)*

- Developed a photography showcase website enabling users to browse galleries, download albums, and contact the photographer.
- Implemented admin functionality for album uploads and content management to maintain an updated portfolio.
- **Technologies: MongoDB, Express.js, React, Node.js (MERN Stack) | Tools: VS Code**

## Movie Search App

*React Movie Search Application*

- Built a full-stack movie search platform enabling users to browse trending films or search titles in real time with optimized performance.
- Implemented smart debounced search to reduce API calls and integrated Appwrite backend for analytics, tracking popular queries and search frequency.
- Designed a fully responsive UI with a modern dark theme, gradient text, and smooth mobile experience.
- **Technologies: React, Vite, Tailwind CSS, TMDB API, Appwrite | Tools: VS Code**

## Skills

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### Technological Skills

- Programming Languages: Java, Python, Dart, C, C#, PHP, JavaScript
- Frameworks : Flutter, React, Node.js, Express.js, .NET
- Databases : MySQL, PostgreSQL, MongoDB, Appwrite
- Development Concepts: Agile Methodology, OOP, Data Structures & Algorithms

### Soft Skills

Leadership, Teamwork, Problem-solving, Time management, Adaptability, Critical thinking

## Volunteering Experience




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- Volunteered as an organizing committee member at IEEE day 2024 SUSL.
- Volunteered in CoderDojo session series conducted by STEMUP education foundation to guide young IT learners.
- Volunteering as a content writer at IEEE SUSL Student Branch
- Volunteered in ITECH 2.0 Innovation Exhibition organized by Karagastalawa Maha Vidyalaya.

## Certificates

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### Verify Certificates

- Python (Open & Distance Learning University of Moratuwa) E-Certificate (*Google drive*) 
- RAG basic E-certificate (*Google drive*) 
- Certificate on KodeKloud Engineer - Git (Level 1) (*Google drive*) 
- Docker Essentials E-Certificate (*Google drive*)

## Hackathons

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- Semi Finalist Brainstorm 2025 - IEEE EMBS- Innovative healthcare technology to streamline ambulance service in Sri Lanka.