CHATHUDU SAHASSARA

MACHINE LEARNING ENGINEER | WEB DEVELOPER | MOBILE DEVELOPER | BACKEND DEVELOPER

0772289561 | chathudu@chathudu.web.lk | www.chathudu.web.lk | github.com/chathudusahassara
linkedin.com/chathudu-sahassara

Results-driven Software Developer with experience in Machine Learning, Full-Stack Web Development, Mobile Application Development, and Backend Development. Skilled in building intelligent applications, REST APIs, database-driven systems, and scalable server-side solutions using modern development technologies. Strong foundation in machine learning, software engineering, application security, and system integration. Experienced in developing practical solutions from design and implementation through testing and deployment. Quick to learn emerging technologies and effective in collaborative, problem-solving environments.

AREA OF EXPERTISE

Machine Learning & AI	Full-Stack Web Development	Backend & REST API Development
Mobile Application Development	PHP & MySQL	Python Development
React.js & Node.js	Database Design & Management	Model Training & Evaluation

KEY ACHIEVEMENTS

- **Full-Stack Development.** Developed and deployed multiple complete web applications with frontend, backend, database, and admin panel functionality.
- **Machine Learning Integration.** Built and integrated machine learning models into real-world applications using Python, React, Node.js, and MongoDB.
- **Production Web Deployment.** Successfully developed and deployed live websites for organizations including CSBM Campus and Global Marine Group.
- **Backend & Database Development.** Designed backend systems, REST APIs, authentication modules, and database structures using PHP, Node.js, MySQL, MongoDB, and Firebase.
- **Mobile Application Development.** Developed mobile applications using React Native, Kotlin, Java, and Firebase with real-time data integration.
- **End-to-End Project Delivery.** Completed multiple software projects from requirements analysis and UI development to backend implementation, testing, and deployment.
- **Administrative System Development.** Built web-based admin panels and management systems for content management, user management, and organizational operations.
- **Professional Software Experience.** Gained hands-on software engineering experience through web development, software development, and internship roles in multiple organizations.

PROFESSIONAL EXPERIENCE

CSBM Campus — Malabe, Sri Lanka

IT Executive – Software & System Development **Nov 2025 – Present**
Information Technology Assistant **Nov 2024 – Nov 2025**
Information Technology Trainee **Apr 2024 – Nov 2024**

- **Software & System Development.** Design, develop, and maintain internal software solutions, web applications, and digital platforms supporting academic and business operations.
- **SIS & LMS Management.** Manage and enhance Student Information System (SIS) and Learning Management System (LMS) functionality, integrations, and workflows.
- **Full-Stack Development.** Develop frontend, backend, database, and administrative features using PHP, MySQL, JavaScript, HTML, CSS, and related technologies.

- **System Integration.** Integrate LMS, student systems, payment solutions, APIs, and other digital platforms to improve operational efficiency.
- **IT Operations & Support.** Manage software deployment, system troubleshooting, updates, networking-related support, and technical issues across the organization.
- **Process Automation.** Identify manual workflows and implement digital solutions to improve accuracy, productivity, and user experience.

Information Technology Lecturer - (Part time) **CSBM Campus | Oct 2025 – Present**

- **IT Education.** Deliver theoretical and practical sessions across Information Technology and software development subjects.
- **Practical Development Guidance.** Guide students in programming, web development, software engineering, projects, and modern development tools.
- **Academic Support**. Prepare lesson materials, assessments, demonstrations, and practical exercises aligned with course objectives.
- **Student Mentoring.** Support students with academic projects, technical problem-solving, and development best practices.

Software Development Intern **Airport & Aviation Services Sri Lanka | Feb 2023 – Jul 2023**

- **Software Development.** Assisted in designing, developing, testing, and maintaining internal software applications.
- **Application Development.** Worked with programming technologies including Java and C# to support business requirements.
- **Testing & Troubleshooting.** Identified application issues, debugged code, and supported implementation of software improvements.
- **Team Collaboration.** Worked with technical teams to understand requirements and contribute to software development activities.

Software Engineer Intern **Fishifox (Pvt) Ltd | Jun 2022 – Dec 2022**

- **Full-Stack Development.** Contributed to frontend and backend development of web-based applications.
- **Backend Development.** Developed and maintained application functionality using Java, Node.js, databases, and related technologies.
- **Feature Development.** Assisted with implementation, testing, debugging, and enhancement of application features.
- **Software Engineering.** Gained practical experience with development workflows, coding standards, version control, and team-based software delivery.

TECHNICAL SKILLS

- **Languages:** Python, PHP, JavaScript, Java, C, C++, C#, SQL
- **Frontend:** React.js, HTML5, CSS3, Bootstrap
- **Backend:** Node.js, PHP, REST APIs, MVC
- **Databases:** MySQL, MongoDB, Firebase
- **Machine Learning:** Model Training, Evaluation, Data Preprocessing, Predictive Modeling
- **Mobile:** React Native, Kotlin, Android Development
- **AI Development Tools:** ChatGPT, OpenAI Codex, Claude Code
- **Tools:** Git, GitHub, VS Code, Visual Studio, Android Studio, Eclipse
- Design: Figma, Photoshop
- **Deployment:** Hostinger, WordPress, WooCommerce

EDUCATION

Sri Lanka Institute of Information Technology

- BSc (Hons) in Information Technology Specializing in Information Technology

Anuradhapura Central College

- G.C.E. Advanced Level - Physical Science

PROJECTS

Student Information & Company Management System (SIS)

(PHP, MySQL, JavaScript, HTML, CSS, MVC Architecture)

- Enterprise Management System. Designed and developed a centralized Student Information System to manage major academic, administrative, operational, and organizational activities within the company.
- Full-Stack Development. Developed the complete frontend, backend, database structure, business logic, administrative interfaces, and system workflows.
- Student & Academic Management. Implemented functionality for student records, course/program management, enrolments, academic information, user access, and related institutional processes.
- Integrated Business Operations. Built modules to support multiple company functions and improve coordination between academic, administrative, finance, and management activities.
- System Integration. Integrated the SIS with other organizational platforms and digital workflows to support efficient information sharing and centralized data management.
- Database & Access Management. Designed and maintained structured MySQL databases with role-based access and secure management of organizational and student information.
- Process Automation. Digitized and automated manual workflows to reduce repetitive administrative work and improve data accuracy and operational efficiency.
- Production Deployment. Successfully developed, tested, deployed, and maintained the system in a live company environment.
- Continuous Development. Currently maintaining and enhancing the production system by adding features, resolving issues, optimizing workflows, and supporting users.

Smart Career Guidance: Machine Learning-Based Career Path Prediction

- https://github.com/chathudusahassara/job_prediction_app.git
- Train machine Learning Model / Frontend & Backend

Real-Time Location Tracking System Using IoT Technology

- https://github.com/chathudusahassara/GPS-Mobile.git
- Using Firebase Realtime database

Machine Learning-Based Fish Health Monitoring and Disease Analysis

- https://github.com/chathudusahassara/fish-health
- Using Firebase Realtime database

Web Application for HVA Tea

- https://teas.hvaceylon.com
- Using WordPress with woo commerce plugin

Development of a Web Application for an Electricity Distribution Company

- https://github.com/chathudusahassara/ElectricityDWeb
- Users can calculate the amount of electricity consumed and the cost for it, enroll new users in the organization, manage the employee information of the organization, etc

Adaptive Learning Platform for Down Syndrome Students Using Machine Learning

- https://github.com/chathudusahassara/DownSyndroma
- Train machine Learning Model / Frontend & Backend

Intelligent Sinhala Handwriting Practice Platform for School Students

- https://github.com/chathudusahassara/School
- Train machine Learning Model / Frontend & Backend

Machine Learning-Driven Motor Skill Analysis and Enhancement Platform

- https://github.com/chathudusahassara/Motor-Skills
- Train machine Learning Model / Frontend & Backend

Website for Global Marine Group

- https://www.gmigroup.lk
- Created full web application (with admin site)

Website for CSBM Campus

- https://csbm.edu.lk
- Created full web application (with admin site)

E-Library System

- https://library.csbmcampus.com
- Created full web application (with admin site)

AI-Powered Caller Emotion Analyzer Using Machine Learning

- https://github.com/chathudusahassara/caller-emotion
- Train machine Learning Model / Frontend & Backend

Travel Guide Android App

- https://github.com/IT20253912/eyetravelAndroid
- Developed both frontend and backend

Android App for Find Travelling Places

- https://github.com/IT20253912/tourGuidendroid
- Developed both frontend and backend

REFERENCES

- **MR. PRADEEP ALEXANDER -** Director/CEO - CSBM Campus | Business Finance Consultant | No: 388/1B | Kaduwela Road, Malabe, Sri Lanka | 0768036368 | alexander.p@csbm.edu.lk
- **MR. THUSHARA SENARATHNA -** Managing Director | FishiFox (Pvt) Ltd | No 146/120D Salmal Place, Mattegoda, Kottawa | 0777615169 | thushara@fishifox.com