

Ishan Chamika, Software Engineer Intern, Computer Science Undergraduate

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Summary

Aspiring software engineer with a strong foundation in computer science principles and hands-on experience in Java, Spring-boot, Node.js, PHP and React.js. Key achievements include developing Theater Management System and Student Management with Digital Library System (web apps) using PHP, JS and Integration of Open Source Software using Middleware, Single-Sign-On, Rest APIs, React, Node, Express. Seeking a Software Engineer Intern role to apply my frontend and backend skills in building innovative digital solutions.

Education

University of Colombo School of Computing, Bachelor of Science in Computer Science	2022 - 2025
GCE Advanced Level at Tissamaharama Central College - Combine Maths-A , Physics-B , Chemistry-B	2018 - 2020
GCE Ordinary Level at Tissamaharama Central College - 8 A's and 1 C for 9 subjects	2010 - 2016

Projects

Theater Management Platform

MAY 2023 - APRIL 2024

A web app for ticket booking, hall reservations, and drama management. Features include QR code-based booking approvals, PHP mailer for user communication, and MySQL events and triggers for transaction management. Streamlines theater operations with user-friendly interfaces and a robust backend.

Technologies : PHP, HTML, CSS, Javascript, MySQL, PHP Mailer, Event and Triggers using MVC architecture

Key Features of ticket booking part

- Users can choose their preferred seats depending on the dates and time from where the available seats mapping.
- Users can show real time total price when selecting the seats.
- Can book more than one seat at a time.
- Online payment facilities using payment gateway
- Discount for the user under the rules and conditions
- Ticket cancellation facilities under the conditions and get refund
- If lost booking details, then user can recover their booking details

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August 2024 - September 2024

Sri-Tel Package Activation System using Microservice

Developed a microservice-based system for secure package activation, featuring JWT authentication, React-based UI, and strong password enforcement. Users can add multiple packages and activate them after payment. Node-mailer sends OTPs and activation notifications. Designed REST APIs for seamless inter-service communication.

Tech Stack: Node, React, Express.js, MySQL, Microservices, Node-Mailer, JWT, REST API

Key Features

- Secure Registration and Login system
- Direct package activation/ activate package collection after successful payment
- shows activated packages with validity period and payment history
- can't add to bill same package which are still unpaid.
- Admin add the package with details

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April 2024 - September 2024

Tea Factory Management System (MERN Project)

Tech Stack: Node.js, React.js, Express.js, MongoDB

- Develop a web-based system for managing tea pickers, transporters, and buyers
- Implemented features for user registration, order management, and request handling
- Utilized JWT (JSON Web Tokens) for secure user authentication and session management
- Applied Express for routing and MongoDB for efficient data management
- Gained hands-on experience in Node.js, React, and MongoDB, leveraging them for seamless front-end and back-end integration.

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Order Form

Present

Tech Stack: Java Spring Boot, MySQL

- Develop a web-based system for manage the selling and Buying Items.
- Use Interfaces, Enum and Exception with OOP concepts for better handling the system.
- Create a Docker Image and Deploy the Docker Hub.

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Student Management and Digital library System

May 2024 - Present

Built a system integrating DSpace, Koha, Moodle, and OpenSIS to streamline client operations. Developed role-based access for students and other users, with students accessing LMS and others the library. Created middleware with Node.js and customized platforms for a better user experience. Utilized DSpace REST APIs for integration and developed a QR-based mobile app for student attendance. Deployed using Google Cloud Platform and Dockerized the middleware for compatibility.

Open Source Software - DSpace, Koha, Opensis, Moodle

Tech Stack: **Docker, Middleware, Single-Sign-On(SSO), React.js, Express.js, Node.js**

Bank Account Management Project

May 2024 - July 2024

Tech Stack: Java Spring Boot, Hibernate, MySQL, React.js

Developed Account creation, Withdraw, Deposit and Inquiry operations, structure using Controller, Dto, Entity, Repo and Service, layers. Implemented RESTful API endpoints and used MySQL database. Manage system using OOP concepts and convert the tightly coupled into loosely coupled.

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Technical Skills

Programming: Java, JavaScript, PHP, C, C++

Web Development: Spring Boot, HTML/CSS, React.js, Express.js, Node.js

Database: MySQL, MongoDB

Other:

- GIT / Git Hub, Docker, Google Cloud, CI / CD - Jenkins
- REST APIs, Postman
- Open Source Software Systems

Non-Tech Skills

- Team Work
- Collaboration
- Communication
- Time Management
- Self Learning
- Creative Thinking
- Problem Solving

Courses

Java Programming: Solving Problems with Software - Coursera

Jan 2024 - July 2024

[show](#)

Career Essentials in Cybersecurity by Microsoft and LinkedIn

July 2024

[show](#)

Software Processes and Agile Practices - Coursera

Aug 2024

[University of Alberta](#)

AWS Educate Introduction to Cloud 101 - AWS

Aug 2023

[show](#)

Reference

Senior Prof. KP Hewagamage

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