

Saliya Lakshitha Bandara

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EDUCATION

University of Colombo School of Computing

May. 2022 – Present

Computer Science

Relevant Coursework: Data Structures and Algorithms, Machine Learning and Neural Computing, Middleware Architecture

D.S.Senanayake College, Colombo

2012 – 2020

Physical Science

EXPERIENCE

Engineering Intern at WSO2

2024 November – Present

- Tools & Technologies - Java, React, TypeScript, Apache Synapse, WSO2 Micro Integrator, LemMinX, XML Language Server, Visual Studio Extension Development
- Developed a new RDBMS Connector for WSO2 Micro Integrator supporting MySQL, PostgreSQL, Oracle, MS SQL Server, and IBM DB2, enabling complex relational database interactions.
- Introduced dynamic SQL query generation, parameterized queries, and result set mapping. Enhanced low-code integration via the WSO2 Micro Integrator Visual Studio Code Extension.
- Added advanced capabilities through LemMinX XML Language Server integration. Implemented dynamic fields in the VSCode extension for improved user experience which was previously a static schema based approach.
- Built a WebSocket Connector for real-time communication with WebSocket servers.
- Created a JMS Connector to interact with JMS servers.

Freelance Web Developer

2020 – 2023

- Developed and maintained web applications for local/international companies, businesses, educational institutes, government institutions, and non-profit organizations.

NOTEWORTHY PROJECTS

Trading Platform for Financial Instruments

2021 - for Capital Alliance (CAL) Investment Bank

2024 - with OTC instruments for Veritas Capital Partners

Tools & Technologies - Express.js, Vue.js, Socket.io, PHP, MySQL, Nginx, Jenkins, AWS EC2

- Web-based trading platform to trade financial instruments such as commercial papers, securities, debentures, etc.
- Real-time trading, order matching, and order book management are some of the key features of the platform.
- Traders are notified of competing bids and offers in real-time, and they can place bids accordingly.
- The platform also provides a comprehensive dashboard for traders to monitor their portfolio, view historical trades, and analyze market trends. Automated calculations of yield, accrued interest, and other financial metrics are also available.

LiveCollege - livecollege.co.uk

2020 – Present

Learning Management System and integrated E-commerce platform for LiveCollege - online education platform

Tools & Technologies - Python, PHP, MySQL, JavaScript, Apache

- Features - live video lectures, real-time quizzes with live leaderboards, exam system, results, academic note library, video recording library, student certification with shareable digital certificates, project showcase, and more.
- Custom developed DRM system for video recording library to prevent unauthorized downloads and sharing of videos.
- Tightly integrated with the e-commerce platform for course enrollment and subscription management with online payments, recurring payments for installments, discount codes, and etc.

HoloMentor

2024 – Present

Tools & Technologies - Spring Boot, React.js, TypeScript, PostgreSQL, Python, Docker, Jenkins

- A personalized learning and progress tracking system for students preparing for competitive exams.
- Features - personalized study plans, progress tracking, performance analytics, personalized quiz recommendation system for continuous improvement, mock exams, and practice tests to improve their knowledge and skills.
- The platform also provides detailed reports and insights to help students identify their strengths and weaknesses.
- Teachers and mentors can monitor the progress of students, provide feedback, and adjust the study plans accordingly.

Tools & Technologies - PHP, MySQL, JavaScript, Nginx, Jenkins, AWS EC2

- E-commerce platform for buyadeal.lk - an online marketplace for general consumer goods.
- Features - product listings, shopping cart, order management, payment gateway integration, invoice generation, user reviews, and ratings, wishlist, and more. RESTful API for customer and Delivery Partner mobile apps.

HONORS AND AWARDS

- **DevQuest - Runners-Up (Team Arasaka Corp.)** Jan 2024
International hackathon organized under the tertiary category of SLIIT CODEFEST 2023
- **Rootcode Tech-Triathlon 2024 - 2nd Runners Up (Team CodeRecon)** Nov 2024
Inter-university hackathon with 3 stages - Designathon, Hackathon, and Datathon (AI/ML)
- **Algothon 2023 - Winners (Team CompCr3w)** - SLIIT CODEFEST 2023 Jan 2024
- **CyberZee'23 - Runners-Up (Team Firehackers)** - Organized by University of Kelaniya ISACA Aug 2023
- **IEEEExtreme 18.0 - World Rank 307 / 6491 (Team CompCr3w)** Oct 2024
- **National Olympiad in Informatics (NOI) 2019 - Top 10 Grand Finalist** Nov 2019
- **Duothan 3.0 - Winners (Team Love at First Sight)** - Organized by the IEEE SB of NSBM Feb 2023
- **OpenHack 2.0 - Runners-Up (Team CompCr3w)** - Organized by Mozilla Campus Club of IIT Feb 2023
- **FreshHack 3.0 - Winners (Team CompCr3w)** - Organized by UCSC ISACA Student Group Jan 2023
- **Algothon 2022 - 2nd Runners-Up (Team CompCr3w)** - SLIIT CODEFEST 2022 Jan 2022
- **Google Code-in 2019 - Merit Award** 2019
- **SLIIT Robofest 2018 - Merit Award Open Category** - UAV/Drone Competition Sept 2018

LICENSES AND CERTIFICATIONS

High Performance and Mission Critical Software Development Using C++ June 2023
 • Workshop series on High Performance and Mission Critical Software Development Using C++ conducted by LSEG

AWS Educate Introduction to Cloud 101 Aug. 2023
 • Credential ID: 38626d5b-ba4d-4dfb-8650-dee9084b7972

Certificate in Java Application Development - NIBM Nov. 2018 - Mar 2019

VOLUNTEERING AND POSITIONS OF RESPONSIBILITY

Chairperson - IEEE Innovation Nation Sri Lanka 2023 - Colombo North Region June 2023 – Feb 2024

Led and organized the Colombo North regional competitions, workshops, knowledge sessions, etc for IEEE Innovation Nation Sri Lanka 2023 - a national-level innovation and entrepreneurship competition.

Problem Setter - National Olympiad in Informatics (NOI) 2024 Jan 2024 – May 2024

IEEE Student Branch of University of Colombo School of Computing Aug 2022 – June 2024

- Webmaster - Managed the official website, SB Event Websites, Registration Systems, etc. of the IEEE SB of UCSC.
- Organizing Committee Co-Chair - Infinite Loop 1.0 Workshop Series
- Organizing Committee Member - MadHack 2023, IEEE Day 2023, IntelliHack 3.0

Webmaster - Computer Science Society of University of Colombo Feb 2024 – Present

Web Team Member - ACM Student Chapter of University of Colombo Dec 2022 – May 2023

SKILLS & INTERESTS

Languages: C, C++, Python, Java, JavaScript, TypeScript, PHP, Scala

Developer Tools: Git, Figma, GitHub Workflows, Jenkins, Linux

Frameworks: React.js, Express.js, Tailwind CSS, Bootstrap, Spring Boot, Laravel

Cloud/Databases: MySQL, PostgreSQL, MongoDB, Azure, AWS EC2, Jenkins, Docker, Kubernetes

Soft Skills: Writing, Teamwork, Problem Solving, Adaptability

Areas of Interest: Software Engineering, High Performance Computing, Full Stack Development, Machine Learning

REFERENCES

- **Mr. Pubudu Liyanage** - Senior Lecturer, University of Colombo School of Computing
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