



## Tharindu Dhananjaya Attygalle

☎ +94-702086382

✉ tharindud022@gmail.com

🐙 GitHub Profile

🌐 LinkedIn Profile

## EDUCATION

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### •Bachelor of Science Honors in Computer Science

2021-now

University of Colombo School of Computing

GPA: 3.76

### •GCE Advanced Level

2019

Ananda College- Colombo 10

## PROJECTS AND RESEARCH

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### •Balancing Privacy and Performance in Federated Learning with Dynamic DP and SMPC (Ongoing)

Final year research

- Develop an algorithm that dynamically adjusts privacy settings to better protect user data during machine learning.
- Implement a hierarchical structure to improve the algorithm's speed and ability to handle large numbers of users effectively.

### •CopSco

A web based application that allows day to day drivers to upload evidences of traffic violations that they witness and earn rewards.

- Developed a web application to report traffic violations using dashcam footage.
- Enabled online fine payment and centralized violation management.
- Designed RESTful APIs for video uploads, fine management, and user authentication.
- Technology Used: React, Node, Express, PostgreSQL, AWS

### •Tea Subsidy Management System

A web-based application designed to digitize and streamline the manual process of managing tea subsidies for farmers.

- Enabled efficient management of subsidy applications, land inspections, payments, and reporting.
- Streamlines communication and data management between farmers, offices, and suppliers for transparency and efficiency.
- Technology Used: PHP, MVC Architecture, HTML, CSS, JavaScript,

## EXPERIENCE

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### •Software Engineer- Intern

November 2023 - May 2024

CodeGen Internationals, Sri Lanka

- In-depth understanding of modern web development frameworks and tools, including Spring Boot, Angular, Python, Django, and LangChain.
- Proficient in designing and implementing generative AI solutions, such as chatbots and conversational interfaces, leveraging advanced AI and machine learning techniques to enhance user interactions and engagement.
- Strong knowledge of secure coding practices and authentication mechanisms, including the implementation of Spring Security for access control.
- Hands-on experience in designing and deploying real-time systems, such as WebSocket-based modules for live updates
- Skilled in managing CI/CD pipelines using GitLab, ensuring efficient and automated deployment workflows.
- Experienced in agile methodologies and Scrum practices, actively participating in sprint planning, retrospectives, and daily stand-ups.

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** Java, C/C++, Python, Scala, PHP, Javascript, HTML+CSS

**Web Dev:** Nodejs, ReactJs, Spring boot, Angular

**Cloud/Databases:** MongoDB, Pinecone, Relational Database(mysql)

**Version control:** GitHub, GitLab

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.

**Soft Skills:** Problem Solving, Self-learning, Excellent communication skills, Effective time management, Collaborative team player

## REFERENCES

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### • Mr. Shakya Senarathne (Software Architect)

CodeGen Internationals

- shakya@codegen.net , +94 71 861 6760

### • Dr. Ajantha Athukorala (Director)

University of Colombo School of Computing

- aja@ucsc.cmb.ac.lk, +94 71 388 2929