ANUPA SIRIWARDANA

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📍 Colombo, Sri Lanka Portfolio : anupasiriwardana.vercel.app

PROFILE

I am a Software Engineering undergraduate eager to learn and take on challenges that expand my skills. With a strong foundation in programming, data structures and algorithms, and software development life cycle principles, I enjoy building reliable and efficient solutions. My research interests lie in AI security, particularly in detecting adversarial attacks using behavioral biometrics. I'm seeking an internship to apply my knowledge, expand my expertise, and make meaningful contributions to a dynamic team.

EDUCATION

BSc (Hons) in Software Engineering   (2023 - Present)

University of Colombo School of Computing
Current GPA - 3.66/4.00

GCE Advanced Level Examination   Ananda College , Colombo 10   (2022)

Z-Score - 1.93 , ICT - 'A' , Combined Maths - 'B' , Physics - 'B'

Diploma in Information Technology   ESOFT Metro Campus   (2019)

PROJECTS

Zypher : CI/CD Pipeline Security Assistant   (Ongoing Group Project)

Developing a full-stack web application that performs static analysis on CI/CD configuration files to automate vulnerability detection and enforce best practices. The platform features a rule-based scan engine, an integrated knowledge base, and detailed reporting with severity scores, code location and remediation guidance.

Key Contributions :
- Collaborated in sprint planning and Contributed to develop the core scanning logic and scan engine.
- Responsible for building the RESTful API endpoints for scan operations and testing them with Swagger UI.
- Deployed and managed production hosting for the Next.js app and FastAPI backend on Render.

Tech stack : Next.js , Tailwind CSS , FastAPI , MongoDB , GitHub API , Render

GitHub Repository - github.com/anupasiriwardana/zypher

GymVerse : Gym and Fitness Management in One Space   Group Project (2024 - 2025)

A comprehensive gym and fitness management platform providing a holistic fitness experience through personalized workout and meal plans, streamlined class booking with calendar integration, progress analytics, while also providing gym management tools such as membership management, QR-based attendance tracking, equipment management, and trainer onboarding —all within a dynamic web application.

Key Contributions :
- Responsible for developing a custom JavaScript-based routing system to simulate Single Page Application (SPA) behavior, enabling seamless navigation and dynamic content delivery.
- Built the class scheduling and booking system with integrated calendar view.
- Implemented workout logging, fitness progress tracking, and membership management modules.

Tech stack : JavaScript, HTML , CSS , PHP RESTful backend, MySQL

GitHub Repository - github.com/Threadstone15/Group_Project_48

SkillSwap : AI-Powered Skill Exchange Platform (Ongoing Project)

Developing a dynamic web application that facilitates skill-sharing through a multi-mode system using AI-driven matching, integrated video calls, and a credit-based economy to connect users for knowledge exchange.

Core Features :

- A triple-mode system (Teach & Learn, Learn Only, Teach Only) powered by a dynamic credit-based economy.
- AI-powered matching algorithm to connect users based on skills, location, proficiency level, etc.
- Integrated video calling, a real-time chat and calendar synchronization system for communication, and a secure point management system for credit transactions and rewards.

Tech stack : React, Spring Boot (Java), PostgreSQL, Daily.co API, Google Calendar API, Stripe API, OpenAI API

GitHub Repository - github.com/anupasiriwardana/SkillSwap

VolunteerLink : Volunteer Opportunity Platform Group Project (2024)

A platform connecting volunteers with meaningful opportunities and enabling organizations to recruit skilled individuals for their projects.

Key Contributions :

- Responsible for Designing and building the core RESTful API backend and testing the API using Postman.
- Implemented the opportunity listing and application management module.

Tech stack : Node.js, Express.js, MongoDB, React, Tailwind CSS

GitHub Repository - github.com/anupasiriwardana/VolunteerLink

CERTIFICATIONS & COURSES

BCS Level 5 Diploma in IT BCS, The Chartered Institute for IT (2023)

Modules Learned : Database Systems, Object Oriented Programming, Professional Issues in IS Practice , System Analysis and Design

AWS Educate Introduction to Cloud 101 (2024)

AWS Educate

Supervised Machine Learning: Regression and Classification (In Progress)

DeepLearning.AI & Stanford Online

SKILLS

Languages	**:** C, C++, Java, Python, JavaScript, HTML, CSS, PHP, R, Octave, SQL
Frameworks & Libraries	**:** Next.js, React, Node.js, Express.js, Spring Boot, Tailwind CSS , FastAPI
Databases	**:** MySQL, PostgreSQL, MongoDB
Technologies & Tools	**:** Git, GitHub , Docker, Jira, Postman, Vercel , Render
Soft Skills	**:** Team-player, Adaptability, Problem Solving, Communication

ACHIEVEMENTS

Director's List - University of Colombo School of Computing

Recognition for academic excellence: Year 2 Semester 1 and Semester 2

EXTRA-CURRICULAR & VOLUNTEERING ACTIVITIES

AIESEC in University of Colombo (2024 - 2025)

- Member of Incoming Global Volunteer (IGV) Team : Engaged with international volunteers by supporting them during their stay in Sri Lanka, strengthening skills in cross-cultural communication, and project coordination.

Inter-faculty Championship - University of Colombo (2024)

- Represented UCSC in Football and placed 2nd runners-up

All Island Inter-School Western Music & Dance Competition - Carey College Senior Brass Band (2017)

- Performed as a member of the Senior Brass Band and secured 2nd runners-up