Vishishta Dilsara

INTERN - SOFTWARE ENGINEERING

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🔗 vishishtadilsara | ⭘ vishishtadilsara | 🌐 Portfolio

Summary

A third-year Software Engineering undergraduate with experience in building full-stack projects and developing practical software solutions. I focus on writing clean, scalable, and maintainable code, with hands-on exposure to testing, debugging, and technical documentation. I use DevOps concepts and cloud technologies to deploy and manage applications, ensuring reliability and scalability. I enjoy contributing to open-source projects, collaborating with others, and continuously learning new tools and technologies to build modern, user-friendly software systems.

Education

Faculty of Computing, University of Sri Jayewardenepura   *June 2023 – Present*
BComp.(Hons.) in Software Engineering   GPA: 3.707

Esoft Metro Campus, Galle   *Completed 2023*
Assured Diploma in Information Technology   Results: Distinction

Richmond College, Galle   *Completed 2022*
G.C.E. Advanced Level Examination   Results: ABC

Project Experience

Beauty Glow – MERN E-Commerce Platform   *Project Link   Live Website*

- Designed and developed a full-stack MERN stack e-commerce web application for a cosmetics brand, including product listings, category management, shopping cart and checkout features, secure user authentication, and a role-based admin dashboard for managing products, users, and orders.

- Containerized the application using Docker, built and pushed Docker images to Docker Hub, deployed the system on AWS EC2, and configured a CI/CD pipeline using GitHub Actions runners to automate application build and deployment.

- **Technologies:** MongoDB, Express.js, React.js, Node.js (MERN Stack), Tailwind CSS, JWT Authentication, Docker, Docker Hub, GitHub Actions, AWS EC2, Supabase (Media Storage)

E-Commerce Web Application (Group Project)   *Project Link*

- Full-featured online shopping platform enabling product browsing, cart and checkout operations, user authentication, and an admin dashboard for managing products, categories, and orders.

- Designed and implemented frontend views using Laravel Blade templates with Bootstrap for styling. Developed backend modules for product CRUD operations, order workflows, and user role handling. Integrated controllers with database models and ensured smooth request–response flow. Configured MySQL database, optimized queries, and collaborated using Git throughout the SDLC.

- **Technologies:** Laravel (PHP), Bootstrap, MySQL

SmartFlix – ML-Based Movie Recommendation System (Group Project) *Project Link*

- Machine learning–driven movie recommendation system developed to suggest personalized movies based on user preferences and similarity-based retrieval.
- Implemented a KNN (k-Nearest Neighbors) model to compute content similarity and generate recommendations. Built both frontend and backend using Python, integrating data preprocessing, model inference, and UI interaction into a unified application workflow. Collaborated in a group setting, handling model tuning, feature engineering, and end-to-end system integration.
- **Technologies:** Python, KNN Model, Machine Learning Libraries (NumPy, Pandas, Scikit-learn)

Developer Portfolio Website *Project Link*   *Live Website*

- Designed and developed a personal development portfolio using Next.js, showcasing previous projects, technical skills, and providing contact and connection features for visitors.
- Deployed the application on AWS using S3 for static hosting and CloudFront for content delivery. Configured domain management with Namecheap and set up IAM roles and policies to support a CI/CD pipeline using GitHub Actions for automated build and deployment.
- **Technologies:** Next.js, Tailwind CSS, AWS S3, AWS CloudFront, AWS IAM, GitHub Actions, Namecheap (Domain Management)

Skill Finder – Service Hiring Mobile Application *Project Link*

- Mobile application developed for a real-world client, enabling users to discover, hire, and communicate with service providers across various skill categories.
- Built using Flutter for a smooth cross-platform experience. Integrated Firebase services for user authentication, real-time database operations, and data storage. Designed intuitive UIs, implemented service listings, booking flows, and provider profile management. Collaborated with the client and team to refine requirements and deliver a functional production-ready app.
- **Technologies:** Flutter, Firebase (Auth, Firestore, Storage)

E-Commerce Mobile Application *Project Link*

- Cross-platform mobile shopping application designed with a UI inspired by the Abans retail app, offering product browsing, cart handling, and seamless checkout experiences.
- Developed using Flutter with Firebase as the backend for authentication, real-time data management, and cloud storage. Implemented dynamic product displays, user account features, and order workflows. Ensured responsive interfaces and smooth navigation while collaborating on design and system integration tasks.
- **Technologies:** Flutter, Firebase (Auth, Firestore, Storage)

Plant Disease Recognition System – CNN Model *Project Link*

- Deep learning–based prediction system developed to identify plant diseases from leaf images using a custom-trained Convolutional Neural Network (CNN).
- Built and trained the CNN model using TensorFlow, including dataset preprocessing, augmentation, and accuracy tuning. Developed a web interface using HTML and CSS, and integrated the trained model with a Flask backend to provide real-time image uploads and prediction results. Ensured smooth client–server communication and deployed the system for interactive testing.
- **Technologies:** TensorFlow, CNN, Flask, HTML, CSS

CI/CD Pipeline for Java Maven Project – AWS Deployment *Project Link*

- Implemented a continuous integration and continuous deployment pipeline for a Java Maven application to automate build, test, and deployment workflows.
- Configured the pipeline using AWS services, integrating source code management, automated builds with Maven, artifact generation, and deployment stages. Ensured smooth orchestration of pipeline steps, environment configuration, and reliability in version rollouts. Enhanced delivery speed and reduced manual intervention through automated triggers and monitoring.
- **Technologies:** Java, Maven, AWS (CodePipeline, CodeBuild, EC2/S3), Git

Graphic Design Portfolio Website *Project Link* *Live Website*

- Designed and developed a graphic design portfolio website using React.js, showcasing design works, project galleries, and visual content in a structured layout.
- Implemented a responsive user interface using Tailwind CSS and deployed the application on GitHub Pages for public access and version-controlled hosting.
- **Technologies:** React.js, Tailwind CSS, GitHub Pages

Projects as a Graphic Designer *Portfolio Link*

- Designed logos, posters, branding assets, and social media content for real-world clients, delivering creative and professional visuals.
- Worked with Adobe Photoshop and Illustrator to produce clean, high-quality designs and collaborated with clients to refine concepts.
- **Technologies:** Adobe Photoshop (PS), Adobe Illustrator (AI)

Open Source Contributions

Open Source Contribution to MiroTalk – Bug Fixing *Contribution Link*

- Identified and fixed a bug in the open-source project *MiroTalk*, following standard open-source workflows including creating an issue, forking the repository, working with branches, and submitting a pull request.

Open Source Contribution to MiroTalk – Feature Implementation *Contribution Link*

- Implemented a new feature in the open-source project *MiroTalk* by adding delete button functionality, following standard open-source workflows including issue creation, forking, branching, and submitting a pull request.

Certifications

AWS Cloud Quest: Cloud Practitioner Badge	Amazon Web Services
Aviatrix Multicloud Network Associate Badge	Aviatrix
Assured Diploma in IT	Esoft Metro Campus
Linux, Docker, Kubernetes	KodeKloud
Docker MasterClass : Docker - Compose - SWARM	Udemy

Skills & Interests

- **Programming:** Java, Python, C, C++, C#, JavaScript, TypeScript, PHP, Dart
- **Frameworks & Libraries:** React, Node.js, Express, Next.js , Tailwind CSS, Flutter, Laravel
- **Databases:** SQL & NoSQL DBs (MySQL, MongoDB)
- **DevOps/Cloud:** CI/CD, Docker, GitHub Actions, AWS, Linux
- **Tools:** Git, GitHub, Postman, Figma, VS Code, IntelliJ IDEA
- **Soft Skills:** Teamwork, Problem Solving, Fast Learner, Ability to adapt quickly, Self-motivated
- **Interests:** Cloud, AI tools, Automation, Software Testing, Debugging, Content Creation, Graphic Designing

Volunteering

President, Faculty of Computing Students' Union at USJ	*2024 - 2025*
Marketing Director, Nachna dancing competition organized by Flair club at USJ	*August 2025*
Member, IEEE Xtreme 17.0	*2023*
Member, Sasnaka Sansada Foundation	*2023 - Present*
Marketing Head, FusionX 1.0 organized by FOC USJ	*November 2025*