

# Eranga Kavisanka

INTERN - SOFTWARE ENGINEERING

📍 Colombo, Sri Lanka | ✉ [erangakavishanka111@gmail.com](mailto:erangakavishanka111@gmail.com) | ☎ +94-715271694

🌐 [erangakavisankaariyarathna](#) | 🔄 [eranga035225](#) | 🌐 [Portfolio](#) | 📝 [Blogs](#)

## Summary

A third-year Software Engineering undergraduate at the University of Sri Jayewardenepura with experience in full-stack and mobile application development, building practical software solutions. I focus on writing clean, scalable, and maintainable code, with hands-on exposure to testing and debugging. I apply DevOps practices and cloud technologies to deploy and manage applications, ensuring reliability and scalability. I am also engaged in academic and research work related to machine learning and AI, and continuously learn new technologies to build modern, user-friendly systems.

## Education

<b>Faculty of Computing, University of Sri Jayewardenepura</b> BComp.(Hons.) in Software Engineering	<i>June 2023 – Present</i> GPA: 3.91
<b>Yale College Of English Academy</b> Assured Diploma of Education in English Language	<i>Completed 2023</i> Results: Distinction
<b>Pinnawala Central Colllege, Rambukkana</b> G.C.E. Advanced Level Examination	<i>Completed 2022</i> Results: BBB

## Professional Experience

<b>Co-Founder &amp; Full Stack Developer</b> , InventX Solutions	<i>2024 - Present</i>
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## Project Experience

<b>Crystal Beauty – MERN E-Commerce Platform</b>	<a href="#">Project Link</a> <a href="#">Live Website</a>
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- 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.
- Built and deployed the frontend on Netlify and backend on Render, gaining strong hands-on experience in full-stack architecture and production deployment.
- Technologies:** MongoDB, Express.js, React.js, Node.js (MERN Stack), Tailwind CSS, JWT Authentication, Supabase (Media Storage)

<b>Sekin Express - Delivery Service System</b>	<a href="#">Project Link</a> <a href="#">Live Website</a>
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- Developed a complete delivery management system for a real-world client, working as the backend developer. Implemented core features including real-time parcel tracking, real-time delivery bookings, role-based panels (Super Admin, Admin, Driver, and User), secure authentication, parcel reviews, and dynamic cost calculation covering all essential delivery service workflows.
- The system was manually deployed to production on Hostinger, providing hands-on experience in the full SDLC, server configuration, and maintaining a secure, live delivery platform.
- Technologies:** Laravel, PHP, MVC Architecture, MySQL, Bootstrap, HTML, CSS, JavaScript, REST APIs, Authentication & Authorization, Server Deployment

### **Exclusive - Secured E-Commerce Web Application (Group Project)**

[Project Link](#)

- Developed a secure e-commerce web application that allows users to safely register and log in, browse products, add items to the cart, place orders, and complete payments using the Stripe payment gateway. The system includes product reviews, order management, and an admin panel for managing products and services, with security integrated across all user and transaction workflows.
- The application was hosted on Hostinger and thoroughly tested using SAST, DAST, and other security testing techniques, ensuring secure code quality, vulnerability mitigation, and reliable production deployment while following security best practices across the SDLC.
- **Technologies:** Laravel, PHP, MVC Architecture, MySQL, Bootstrap, HTML, CSS, JavaScript, Stripe Payment Gateway, Secure Authentication & Authorization, Role-Based Access Control, SAST, DAST, Hostinger Deployment

### **MediLink – E-Channeling System**

[Project Link](#)

- Developed a complete e-channeling healthcare system, working as the backend developer. Implemented core features including role-based panels, appointment booking, doctor channeling, secure authentication, online payments via Stripe, and automated receipt generation, covering all essential e-channeling workflows.
  - The system was developed using MVC architecture following real-world requirements, strengthening backend development skills, system design, and understanding of scalable healthcare platforms.
  - **Technologies:** Laravel, PHP, MVC Architecture, MySQL, Bootstrap, HTML, CSS, JavaScript, Stripe Payment Gateway, Role-Based Access Control, Secure Authentication & Authorization
- If you want, next

### **Cinnamon Disease Classification System (Transfer Learning)**

[Project Link](#)

- Developed a cinnamon disease classification system using deep learning and transfer learning. Fine-tuned the EfficientNetB0 model to accurately classify cinnamon plant diseases, achieving 94% classification accuracy, demonstrating strong skills in model optimization and performance evaluation.
- The trained model was integrated into a web application, providing hands-on experience in deploying deep learning models and building end-to-end AI-powered systems for real-world agricultural applications.
- **Technologies:** Python, Deep Learning, Transfer Learning, EfficientNetB0, CNN, TensorFlow/Keras, Image Processing, Web Application Deployment

### **Aura Voice – Multilingual Text-to-Speech Application (NLP)**

[Project Link](#)

- Developed Aura Voice, a multilingual Text-to-Speech application in Python to apply Natural Language Processing concepts in a practical environment. The system supports multiple languages including English, Sinhala, Tamil, Hindi, and more, and demonstrates NLP concepts such as text processing, language handling, and speech synthesis through a modern, user-friendly interface.
- The application converts text to speech instantly using gTTS, includes robust error handling, and ensures smooth audio playback. This project strengthened hands-on experience in Python programming, NLP workflows, and GUI development using Tkinter, delivering a complete and interactive AI-based application.
- **Technologies:** Python, Natural Language Processing (NLP), Text-to-Speech (TTS), gTTS, Tkinter, Multilingual Language Processing, GUI Development

## Smart Weather Prediction System (Machine Learning,Django)

[Project Link](#)

- Developed a smart weather prediction system using machine learning, where multiple models were trained and evaluated to select the best-performing model for accurate predictions. The system includes data preprocessing, model training, evaluation, and prediction workflows, demonstrating practical understanding of end-to-end ML pipelines.
- The final model was integrated into a Django-based web application, providing hands-on experience in deploying machine learning models within a full-stack environment and delivering a functional, user-friendly prediction system.
- **Technologies:** Python, Machine Learning, Django, Scikit-learn, Data Preprocessing, Model Evaluation, Web Deployment

## Animal Classification System (CNN, Deep Learning)

[Project Link](#)

- Developed an animal classification system using Convolutional Neural Networks (CNN) to identify and classify different animals from images. This project strengthened skills in deep learning, computer vision, image preprocessing, and model training.
- The trained model was implemented as a functional system, providing hands-on experience in building and evaluating deep learning models and applying CNN-based solutions to real-world image classification problems.
- **Technologies:** Python, Deep Learning, CNN, TensorFlow/Keras, Image Processing, Model Training & Evaluation

## 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)

## Travel Tales – Mobile Application

[Project Link](#)

- Developed a mobile travel application that allows users to search and explore travel destinations and view detailed information about each location. The app focuses on user-friendly navigation, clean UI design, and smooth interaction, strengthening practical skills in Flutter-based mobile application development.
- The application was built entirely using Flutter, enhancing experience in mobile UI design, state handling, and building scalable mobile applications with a focus on performance and user experience.
- **Technologies:** Flutter, Dart, Firebase, Mobile UI/UX Design, State Management, API Integration

## Weather App – Mobile Application

[Project Link](#)

- Developed a mobile weather application that provides users with real-time weather information, enabling them to view current conditions and weather updates through a clean and user-friendly interface. This project strengthened understanding of mobile application workflows and real-time data handling.
- The application was built using Flutter, enhancing practical experience in cross-platform mobile development, UI design, API integration, and managing dynamic data within mobile applications.

- **Technologies:** Flutter, Dart, REST APIs, Real-Time Data Integration, Mobile UI/UX Design

### 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, Spring Boot, Maven, AWS (CodePipeline, CodeBuild, EC2/S3), Git

### Docker-based CI/CD Pipeline

[Project Link](#)

- Designed and implemented a Docker-based CI/CD pipeline to containerize applications and automate build, test, and deployment stages, improving deployment consistency and reducing manual intervention. Code
- **Technologies:** Docker, Dockerfile, Docker Compose, GitHub Actions, Git, GitHub, CI/CD Pipelines, Linux, Shell Scripting, Containerization, Automated Build & Deployment

### Node.js Backend Deployment on AWS (Docker, ECR, EC2)

[Project Link](#)

- Containerized and deployed a Node.js backend application on AWS using Docker, following modern cloud deployment practices. Built Docker images locally, pushed them to AWS Elastic Container Registry (ECR), and deployed the application on an EC2 instance with secure environment variable configuration and MongoDB integration.
- Configured the EC2 instance to pull images from ECR, run containers with auto-restart on server reboot, and used an Elastic IP to ensure consistent backend accessibility. This project strengthened hands-on experience in AWS cloud services, containerization, and DevOps workflows, with future plans to automate deployments using GitHub Actions.
- **Technologies:** Node.js, Docker, Dockerfile, AWS EC2, AWS ECR, Linux, MongoDB, Environment Variables, Elastic IP, DevOps Practices

## Open Source Contributions

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### Open Source Contribution – API Learning 101

[Contribution Link](#)

- Completed the API Learning 101 open-source task, gaining hands-on experience working with RESTful APIs, core HTTP methods, JSON data handling. Followed standard open-source workflows by understanding project requirements, contributing code in alignment with repository guidelines.

## Certifications

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Multicloud Network Associate Badge	Aviatrix
Full Stack Web Development Course	Skyrek
Flutter Certificate Course	Ceylon Edge
DevOps Master Program	Developers Stack
Diploma in English	Yale College Of English Academy
Linux for Absolute Beginners	KodeKloud
Intermediate Git Certificate	DataCamp
Introduction to Git	DataCamp
Introduction to MERN Stack	Simplilearn
Adobe Illustrator & Photoshop Workshop	Southern IRAA

## Skills & Interests

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- **Programming:** Java, Python, JavaScript, TypeScript, PHP, Dart, C, C++ ,
- **Frameworks & Libraries:** React, Node.js, Express.js, Next.js, Flutter, Laravel, Tailwind CSS
- **Mobile Development:** Flutter (Cross-platform UI, Firebase integration)
- **Databases:** SQL & NoSQL (MySQL, MongoDB)
- **DevOps & Cloud:** CI/CD, Docker, GitHub Actions, AWS (EC2, ECR, S3, CloudFront), Linux , Jenkins, Maven, CI/CD Pipelines
- **Machine Learning & AI:** Python-based ML, Data Preprocessing, Model Training, CNN, KNN
- **Tools:** Git, GitHub, Postman, Figma, VS Code, IntelliJ IDEA
- **Soft Skills:** Teaching & Mentoring, Research & Analytical Thinking, Leadership, Team collaboration, Problem solving, Fast learner, Adaptability, Self-motivated
- **Interests:** Cloud computing, IOT, Embedded Systems, Sensor Integration, Smart Wearable Systems, DevOps automation, AI tools, Software testing, Debugging, UI/UX design

## Volunteering

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Vice President, Faculty of Computing Students' Union at USJ	2024 - 2025
Head Of Teaching Panel, FusionX 1.0 organized by FOC USJ in Collaboration with Sri Lanka Association For AI	2025
Media Team, IEEE Student Branch - USJ	2024
Program Team, IEEE Xtreme 17.0	2023
Batch Representative, Faculty Of Computing - USJ	2024-Present

## Other Skills & Experience

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Banking Intern, Peoples Bank	2021 - 2022
School Maths Olympiad Competitor	School Years
Maths Tutor	2021 - Present
Scout	School Years