Kethaka J. Ranasinghe
Associate Software Engineer | Undergraduate

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Portfolio: [Kethaka J. Ranasinghe](#)

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ABOUT ME

- Full-Stack Java Developer with expertise in Angular, Spring Boot, and PHP, complemented by strong DevOps capabilities (Docker, Kubernetes, AWS CI/CD). Experienced in AI development with OpenCV, MediaPipe, and Keras, alongside data science skills using Streamlit, NumPy, Pandas, and scikit-learn. Focused on delivering scalable, high-performance applications through clean code and thoughtful architecture to solve complex business challenges.

PROFESSIONAL EXPERIENCE

Kapruka Holdings PLC

- Associate Software Engineer | March 2024 – May 2025
- Intern Software Engineer | September 2023 – March 2024

PROJECTS

Kapruka Partner Central. (Spring Boot, Angular, MySQL)

Seller central platform. It connects sellers to the Kapruka.com marketplace backend.

- Lead a team of developers in the development of monolithic architecture.
- Reviews code written by team members and serves as mentor on architecture and new technologies
- Played a key role in troubleshooting and resolving backend issues
- Developed the product module, shipment module, order module, user module, dashboard and admin module with JWT authentication.
- Developed the middleware for the sales and purchase invoices hit to ERPNext open source cloud ERP.
- Collaborated with cross-functional teams, including frontend developers and QA engineers, to deliver a seamless user experience and defect resolution.
- Participated in Agile/Scrum development processes, including daily stand-ups, and retrospectives.

Machine Learning Projects.

- Developed a unified Streamlit web app featuring 5 key machine learning projects.
- Implemented
  - Housing Price Predictor using multiple linear regression and one-hot encoding.
  - Iris Flower Classifier using logistic regression (multiclass) and feature scaling.
  - Customer Segmentation using K-Means clustering with PCA visualization.
  - Email Spam Classifier using binary logistic regression and TF-IDF vectorization.
  - Movie Review Sentiment Analyzer using multiple classifiers (SVM, Random Forest, Logistic Regression) with GridSearchCV tuning.
- Applied core ML techniques: regression, classification, clustering, regularization, cross-validation, and dimensionality reduction.
- Used Pipeline, StandardScaler, TfidfVectorizer, and GridSearchCV to streamline and optimize models.
- Saved trained models using joblib and deployed the application with Streamlit for interactive usage.
  - URL : [ai-demo-application.streamlit.app](#)

Sampath Pos System. (Python, SQLite)

A CLI application for,

- Manages daily sales transactions, Supports multiple branch management, Tracks branch-wise sales performance, Maintains product activity logs, Generates and downloads sales reports.
- Uses a repository pattern for database queries.
- Implemented a test_db_connection class for database testing.

AWS CI/CD Demo Project
- Designed and implemented a full CI/CD pipeline for a Flask web application using AWS services and Docker.
- Containerized the application using Docker and managed multi-container setups with Docker Compose.
- Built and deployed Docker images automatically using AWS CodeBuild and AWS CodePipeline.
    - URL : http://107.20.77.223:5000

GoMart Inventory System. (Spring Boot, Angular, MySQL)

Enabling customer product purchases, with admin privileges for managing products, users, and sales.

Social Sphere Management System. (Spring Boot, React, MySQL)

A social media platform enabling users to create, like, and manage posts, with admin controls for managing users and content.

CityCycle Mobile App for Bike Rental System. (React Native, Firebase)

Application is able to manage Rentals, User Management.

Mobile App for Bike Rental System. (Android, Java, SQLite)

Application is able to manage Rentals, User Management.

EDUCATION

Colombo International Nautical and Engineering College | Undergraduate
- Bachelor of Science (Hons) in Computer Science (Top-Up Degree)

Sri Lanka Institute of Advanced Technological Education | 2021–2023
- HND in Information Technology. | GPA: 3.63

St, Peter's College Colombo–04 Gampaha Branch.

TECHNOLOGICAL EXPERIENCE

Programing Languages
- Java , C++ , Python , PHP, Visual Basic, Android

Frameworks & Libraries
- Backend: Spring Boot, Flask, CodeIgniter
- Frontend: Angular, React, Bootstrap
- Mobile: Android(Java), React Native
- AI/ML: OpenCV, MediaPipe
- Data Science: NumPy, Pandas, Matplotlib, scikit-learn, Streamlit

Web Development
- HTML, CSS, JavaScript

DevOps & Cloud
- Docker, Kubernetes, AWS CI/CD pipelines

EXPERTISE
- Team leadership.
- Application design and development.
- Critical Thinking.
- Problem Solving.
- Time Management.
- Fast Learning.

NON-RELATED REFERENCES
- Mrs. Gayathri Banneheka
  Head of IT Department
  Kapruka (pvt) Ltd
  0703517486

- Mr. S. Rajesh Kanna,
  Vino Trading (pvt) Ltd,
  Company Director.
  0714727427