







# Dilini Chethana

## Software Engineering Intern

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 Dilini Chethana  Dilini Chethana - Portfolio

### Profile

I am a dedicated and enthusiastic Software Engineering undergraduate with a strong passion for developing innovative software solutions. I have hands-on experience with programming languages such as Python, Java, and React.js, and enjoy working on both front-end and back-end development. I am a fast learner, detail-oriented, and eager to apply my technical knowledge in real-world projects. My goal is to gain valuable industry experience as a Software Engineering Intern while contributing to team success through creativity, collaboration, and problem-solving.

### Education

#### BSc (Hons) in Computing and Information Systems

Sabaragamuwa University of Sri Lanka

2022 – Present

Belihuloya, Sri Lanka

#### St. Anthony's Girls' College, Kandy

G.C.E(O/L), G.C.E(A/L)

2007 – 2021

Kandy, Sri Lanka

### Skills

#### Technical Skills

- Programming: Python, Java, React.js, SQL
- Tools: GitHub, Figma, PyCharm, VS Code
- Platforms: Spring Boot, MySQL

#### Soft Skills

- Teamwork & Collaboration
- Time Management
- Problem-Solving
- Presentation & Communication

### Certificates

#### 1. IT Essentials Course – Cisco Networking Academy

Gained foundational knowledge in computer hardware, software, and networking basics.

#### 2. Introduction to Artificial Intelligence - Alison

Learned basic AI concepts, applications, and real-world use cases.

### Projects

#### 1. SecuVision – AI-Powered Security Monitoring System (Group)

Python | TensorFlow | OpenCV | Computer Vision | AI/ML | React Native

**Description:** Developed an intelligent security monitoring system with real-time surveillance and automated alerts.

##### Key Features:

- Real-time threat detection using AI
- Automated alert notification system
- User-friendly dashboard for monitoring
- AI-based behavior analytics for anomaly detection

##### Responsibilities:

- Designed and implemented computer vision models for threat detection
- Develop Frontend of Mobile Application

#### 2. Fridge AI – Smart Recipe Recommender (Ongoing Project)

React | Python | TensorFlow | Node.js | Computer Vision

**Description:** AI-powered mobile app to track food inventory and suggest recipes based on available ingredients.

##### Key Features:

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- Food recognition using computer vision
- Personalized recipe recommendations
- Expiration date tracking

**Responsibilities:**

- Developed AI models for food image recognition
- Ensured website usability and responsive UI design

### 3. Car Rental Management System

*React / Java / MySQL / REST API / Full-Stack Development*

**Description:** Full-stack system to manage car rental services, including bookings, vehicles, and billing.

**Key Features:**

- Vehicle inventory management
- Customer booking and rental tracking
- Admin dashboard for system oversight
- Secure authentication system

**Responsibilities:**

- Developed backend APIs in Java for managing bookings and vehicle inventory
- Built React frontend for customer and admin interfaces
- Implemented database design and queries in MySQL
- Conducted system testing and bug fixing

### 4. BinGo – Garbage Management System (Ongoing Project)

*Flutter / Dart / Firebase / Mobile Development*

**Description:** Mobile application to optimize garbage collection operations for regional offices.

**Key Features:**

- Route optimization for garbage collectors
- Real-time tracking of collection schedules
- Administrative dashboard for monitoring
- Notifications for collection updates

**Responsibilities:**

- Designed UI/UX for seamless user interaction
- Coordinated with team to integrate scheduling algorithms

### 5. AI Music Recommendation System

*Python / Machine Learning / Kaggle / Streamlit / NLP | colab*

**Description:** Machine learning system recommending music based on lyrical content.

**Key Features:**

- Personalized music recommendations
- Interactive Streamlit interface
- Emotion-based classification

**Responsibilities:**

- Built and trained ML model using Python and scikit-learn
- Developed Streamlit UI for user interaction
- Optimized recommendation algorithm for accuracy

## References

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