

# HELIKA UNANTHENNA

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## PROFESSIONAL SUMMARY

An enthusiastic and motivated Computer Science undergraduate with hands-on experience in software development, mobile app development, and web development. Equipped with a strong foundation in algorithms, data structures, machine learning, and deep learning, I am eager to apply my skills in a growth-oriented environment and passionate about contributing to innovative projects, collaborating with dynamic teams, and continuously learning to make a meaningful impact.

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## PROJECTS

### Wildfire Detection Using Satellite Imagery Research (Ongoing)

PYTHON | TENSORFLOW | OPENCV | PANDAS | NUMPY

Currently working on a research project that leverages satellite imagery and advanced machine learning and deep learning techniques for detecting wildfires in satellite images. The project aims to contribute to more effective wildfire detection.

### Movie Recommender

PYTHON | STREAMLIT | PANDAS | NUMPY | FUZZYWUZZY | PICKLE | TMDB API

#### Machine Learning project | [Link](#)

Developed a machine learning-based movie recommendation system using Python and Streamlit. Users input a movie title, and the app suggests similar movies based on content similarity. Integrated with an API to fetch movie posters for a visually engaging experience, the system provides personalized recommendations, even for partial or misspelled titles.

### GymMate

REACT NATIVE | TAILWIND CSS | SUPABASE

#### Mobile App (Group Project) | [Link](#)

Designed and developed a user-friendly Android mobile app for a gym in Kandy to digitize meal and workout plans, replacing their paper-based system. Coaches can create and assign customized plans through their dashboard, while users seamlessly access them through their own. The app features WhatsApp integration for direct coach communication, a BMI calculator, and a calorie tracking system that generates a 7-day burnout chart to help users monitor their progress efficiently. **Contribution : Frontend (mainly)**

### RON

HTML | CSS | JAVASCRIPT | PHP | MYSQL

#### Web Application (Group Project)

Designed and developed a web platform to streamline communication between university societies and students. Societies have dedicated pages to share their history, events, and details. Users can explore societies, register, and access a dashboard with events from all their affiliations. Replacing scattered WhatsApp communication, the platform enables event registration, volunteer applications, and direct interaction with society secretaries, enhancing engagement and simplifying event management.

**Contribution: Frontend**

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## SKILLS

Programming: **Python, Java, PHP, Javascript, HTML, CSS**

Frameworks: **Bootstrap, Laravel, ReactJS, React Native, Django**

Databases: **MySQL, MongoDB, Supabase**

Other Tech Skills: **OOP, Data Structures, Algorithms, GIT, Figma, Postman, REST API**

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## EDUCATION

### BSc Hons (Computer Science)

University of Jaffna

2021 - Present  
GPA : 3.32 (3rd year)

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## REFERENCE

### Dr. S. Shriparen

Senior Lecturer Gr.II  
University of Jaffna  
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### Mr. J. A. S. S. Jayasinghe

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