



# SEHAN CHATHURANGA

## ASPIRING SOFTWARE ENGINEER

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## SUMMARY

Aspiring Software Engineer skilled in building RESTful APIs, full-stack web applications, and secure backend systems using Java, Spring Boot, Node.js, React, and SQL/NoSQL databases. Seeking an internship to contribute to production-grade software development.

## EDUCATION

### Bachelor of Science Honors in Computer Science & Technology (Aug 2022 - 2026)

- Uva Wellassa University of Sri Lanka

### G.C.E. Advanced Level (2020)

- H/Weeraketiya Rajapaksa Central College | Weeraketiya  
2B's and 1C in Physical Sciences

## TECHNICAL SKILLS

- Programming Languages: **Java, Python, JavaScript, PHP**
- Frameworks & Libraries: **Spring Boot, Node.js, Next.js, React, Tailwind CSS**
- Databases: **MySQL, MongoDB, PostgreSQL**
- Tools & Technologies: **Git, JWT, REST APIs, Stripe API, PayHere API**

## PROJECTS

### E-Commerce Platform | Full-Stack Web Application

- **MongoDB, Express.js, React, Node.js, JWT, Stripe API, Tailwind CSS**
  - Built a MERN stack e-commerce platform with secure authentication and payment processing.
  - Implemented JWT authentication, account management, cart, orders, and real-time tracking.
  - Developed an admin dashboard for product CRUD, revenue analytics, order monitoring, and real-time customer updates.

### Handmade Jewellery Try-On & Customization Platform | Full-Stack Web Application

- **Spring Boot, React, Tailwind CSS, PostgreSQL, JWT Auth, PayHere API, AI Integration**
  - Designed and developed a full-stack web application for Wave Mirissa, a local handcrafted jewellery brand.
  - Built secure authentication, product/order management, delivery tracking, and role-based admin dashboard.
  - Implemented AI virtual try-on and personalized recommendations based on face shape and skin tone.

### Hotel Management System | Full-Stack Web Application

- **MongoDB, Express.js, React, Node.js, Stripe API, Tailwind CSS**
  - Built a hotel management platform for user registration, hotel exploration, availability checks, and secure bookings.
  - Implemented user dashboard with booking history, payment details, and real-time reservation updates.
  - Created an owner dashboard for room management, booking monitoring, and analytics.

## PROJECTS

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### Movio – Movie Discovery Platform

- **Next.js, TypeScript, TailwindCSS, TMDB API**

- Built a movie discovery platform that allows users to browse, search, and explore movies with details, ratings, and trailers.
- Implemented dynamic search, category-based filtering, and a responsive user interface for a smooth experience across devices.
- Integrated the TMDB API to fetch real-time movie data and keep content up to date.

## RESEARCH PROJECT

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### Multivariate Anomaly Detection Using Machine Learning and Image Processing for Early Wildfire Detection in Wildfire-Prone Regions (Ongoing)

- **Machine Learning, Computer Vision, Time-Series Analysis**

- Implemented LSTM models to detect environmental anomalies such as heatwaves and dry conditions from multivariate climatic data.
- Built Vision Transformer (ViT) models for wildfire stage classification (pre-fire, active fire, no-fire) using multispectral satellite imagery.
- Enhanced wildfire early-warning accuracy by correlating climatic anomalies with wildfire occurrences and fusing numerical and visual data for risk assessment.

## CERTIFICATIONS

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- **Spring 6: Spring Security** – LinkedIn Learning
- **Spring Boot 3 Essential Training** – LinkedIn Learning
- **Docker Foundations Professional Certificate** – LinkedIn Learning

## SOFT SKILLS

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- **Problem Solving**
- **Team Collaboration**
- **Effective Communication**
- **Time Management**
- **Quick Learner**

## REFERENCES

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### Mr. M.N.T. Nandasena

- Lecturer
- Department of Computer Science and Informatics Faculty of Applied Sciences Uva Wellassa University
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### Mr. Sudhara Abeythunga

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