

Chanuka Devin | Software Developer| AI-ML Engineer

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Professional Summary

Ambitious and adaptable Software Developer with over 2 years of hands-on experience in full-stack development across internships, freelance, and commercial projects. Skilled in building scalable web applications using MERN, Next.js, and backend architectures in Go, SQL, JAVA and Python. Proven success developing an automated timetable management system integrated into a production LMS. Passionate about crafting reliable digital solutions and eager to contribute to innovative teams solving real-world problems.

Work Experience

Associate Software Engineer – 21C Care (Pvt) Ltd, Dehiwala | Sri Lanka | 2024 – Present

- Led the development of a fully automated timetable management system integrated into the company's LMS platform, optimizing scheduling for students and staff.
- Designed and implemented complex SQL logic and backend workflows to handle availability, conflicts, and notifications.
- Delivered full-stack features using React, Spring Boot, and SQL.
- Experienced in CI/CD, AWS Cloud Services.
- Contributed to sprints, design discussions, and code reviews.
- Worked directly with multiple educational and enterprise clients to gather requirements and deliver tailored LMS and ERP solutions.
- Developed customized Learning Management Systems (LMS) for academic institutions with automated scheduling, student-teacher management, and reporting modules.
- Built Inventory and Costing Systems for retail and trading businesses to streamline product tracking, procurement, and cost management.
- Improved data accuracy, scalability, and performance across all deployed solutions through database optimization and modular backend architecture.

Freelance Full-Stack Developer – Remote / Contract-Based | 2025 – Present

- Built a freelance marketplace connecting Sri Lankan professionals with global clients.
- Implemented secure payment gateways, user verification, and project management dashboards.
- Offered post-deployment optimization and SEO support.

Software Engineering Intern – NCAS, Colombo | Sri Lanka | Jan 2024 – Jun 2024

- Built internal workflow modules in Java and MSSQL.
- Contributed to UI and database design for approval automation.

Skills

- Front-End: React.js, Next.js, Tailwind CSS, HTML, CSS, JavaScript, Figma, Vue.js
- Back-End: Go, Python, Node.js, C# , Java
- Databases: MySQL, PostgreSQL, MongoDB , MSSQL
- Framework: Spring Boot, MERN
- AI/ML: Python (TensorFlow, Scikit-learn, OpenCV, MMPose), CUDA, Machine Learning, Deep Learning
- Web Development: WordPress, Full-Stack Development
- Tools & Platforms: Git, GitHub, Docker, RESTful APIs, Firebase, AWS
- Soft Skills : Agile collaboration, problem-solving, time management, fast learning

Projects

AuralFlix – AI-Powered Multimedia Player | 2024 - 2025

- Developed real-time multimedia system with subtitles, sign language translation, and 3D avatars.
- Built frame synchronization algorithm in Python ensuring seamless alignment of audio, subtitles, and sign language.
- Integrated emotion recognition for context-aware subtitle coloring.

- Tech Stack: Python, Go, Next.js, Tailwind CSS, CUDA, TensorFlow, MMPose, OpenCV, AWS

POS & Inventory Management System – NEWCOM | NC Distribution | 2025

- Designed and implemented a full-featured POS system with branch-wise operations and role-based access control.
- Optimized database queries for high transaction volumes across multiple branches.
- Tech Stack: GO, React.js, MSSQL, Tailwind CSS

E-Net EDU - LMS Platform | 2024

- Developed features for marking, research submissions, and online assessments.
- Designed and implemented the automated timetable system with conflict detection and dynamic scheduling.
- Tech Stack: React.js, Node.js, MongoDB, SQL, Firebase.

FITLAB - Fitness Social Media Platform| 2023

- Designed and developed a social fitness platform enabling users to share workouts, track progress, and interact through community features.
- Implemented RESTful APIs using Spring Boot for authentication, post management, and notifications.
- Built a responsive React.js front end with dynamic content feeds, charts, and real-time updates.
- Integrated user analytics, profile customization, and cloud-based storage for images and media uploads.
- Tech Stack : Java (Spring Boot), React.js, MySQL, REST APIs, Firebase.

Education

BSc (Hons) in Information Technology – SLIIT | Sri Lanka | 2021 – 2025 (Completed)

GPA: 3.12- Second Lower Class

- Specialization: Information Technology
- Relevant studies: Programming, Database Systems, Network Management, Web Development, Project Management
- Developed strong technical skills applicable to software development and IT project execution

STARTUP / ENTREPRENEURSHIP PROGRAMME – IIT Madras (IITM) | India | 2026

- Programme Focus: Innovation, Product Development, Business Strategy, Startup Ecosystem
- Participating in mentorship sessions with industry experts and professors
- Working on startup development (Auralflix) with focus on product validation and scalability
- Gaining exposure to venture building, pitching, and entrepreneurial leadership

GCE Advanced Level – Ananda Central College, Elpitiya | 2020

- Subjects & Grades: Combined Mathematics (C), Physics (C), Chemistry (C)

Publications and Certificates

AI-Driven 3D Avatar Framework for Sign Language Translation and Gesture Representation | 2025

- Published in IEE through ICAC.

AWS Academy Graduate – Cloud Web Application Builder (Training Badge) – Amazon Web Services (AWS), Issued Oct 2025

- Gained practical knowledge in designing, building, and deploying cloud-based web applications using AWS services, with hands-on experience in cloud architecture, application integration, and industry best practices.

Certificate in Python Programmer | University of Moratuwa, Sri Lanka | 2023

- Completed a comprehensive Python programming course covering core concepts, data structures, algorithms, and project-based applications.

Certificate in Full Stack Developer | University of Moratuwa, Sri Lanka | 2025

- Acquired hands-on experience in front-end and back-end development, web technologies, databases, and server management.

Certificate in Web Developer | University of Moratuwa, Sri Lanka | 2025

- Developed skills in web application development, including Web Design, Front-End & Server-Side Programming, UI/UX, and professional soft skills.