



BK UPEK HANSAJA

BSc (Hons) Full-Stack Software Engineering (UG)

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in upek-hansaja

ABOUT ME

Motivated and passionate Software Engineer with hands-on experience in full-stack web and mobile application development, software project management, and technological innovation. Proven leadership skills as a former CTO and senior developer. Committed to transforming ideas into impactful digital solutions. Currently pursuing final year of BSc (Hons) in Software Engineering and aspiring to grow as both a developer and a technology educator.

PROFESSIONAL EXPERIENCE

2023 - 2024

WEMIXT Pvt (Ltd)

Chief Technology Officer (CTO)

Spearheaded technological innovation strategy resulting in enhanced product delivery capabilities and improved client satisfaction metrics.

Architected and implemented cutting-edge software solutions that transformed client business operations and competitive positioning.

Established robust development frameworks and methodologies that increased team productivity and code quality standards.

Mentored junior developers and fostered a culture of continuous learning and technical excellence within the organization.

2022 - 2023

WEMIXT Pvt (Ltd)

Senior Software Engineer

Developed and deployed full-stack web applications using modern frameworks, resulting in improved user engagement and operational efficiency for multiple client organizations.

Engineered cross-platform mobile applications using React Native, enabling clients to reach broader user bases and increase market penetration.

Designed and implemented comprehensive Point of Sale and Inventory Control Systems that streamlined business operations and enhanced data accuracy for retail clients.

Led project management initiatives using Agile methodologies, ensuring timely delivery and optimal resource allocation across multiple concurrent projects.

LECTURING EXPERIENCE


2024 - 2024

WEMIXT Academy

Head Lecturer

Aspiring to contribute to software engineering education through lecturing and research activities, combining practical industry experience with academic rigor to develop the next generation of technology professionals.

Mentored over 10+ web developers

What my Students say: [View reviews](#) 

ACADEMIC QUALIFICATIONS

2021 - Present

Java Institute for Advanced Technology,

Sri Lanka.

- In Affiliated with,

Birmingham City

University,

United Kingdom.

Undergraduate Student Researcher | BSc (Hons) Software Engineering (UG)


Conducting a group research as part of the BSc (Hons) Software Engineering program, with a focus on real-world application for Paintball: Smart Soldier monitoring & Navigation system.

Engaged in collaborative projects combining academic knowledge with practical software development experience.

Top Undergraduate Projects:


- **Apilage Banking - 2025**

ApilageBanking is an online banking system built with Jakarta EE and deployed on Eclipse GlassFish Application Server. Using Multi-Module EAR deployment Architecture and Hibernate (JPA) for MySQL integration, it ensures scalability and efficient data handling. Security is enforced via JAAS and RBAC, with annotations supporting audit and compliance.

[View project on GitHub](#) 


- **Redhdha M-Commerce - 2025**

Redhdha M-Commerce is a native Android application developed in Java to deliver a streamlined mobile shopping experience. Built using Gradle and structured for scalability, it integrates core e-commerce features such as user authentication, product browsing, cart management, and order tracking. The modular architecture reflects best practices for Android development, with well-defined source code folders and effective build management via Kotlin-based Gradle scripts.

[View project on GitHub](#) 


- **E-WASTA - 2024**

EWASTA, a Waste Management System (WMS) which is a cross-platform mobile application developed using React Native and Expo, tailored for Sri Lanka's municipal council waste operations. Built with TypeScript and a modular file-based routing architecture, the system ensures maintainable code and seamless navigation. Designed for Android, iOS, and web platforms, WMS streamlines deployment via Expo's managed workflow, with native support for emulators and the Expo Go app.

[View project on GitHub](#) 


- **CrushEka - 2024**

CrushEka is Sri Lanka's first LGBTQ+ dating app, developed with React Native and Expo to deliver a secure, cross-platform experience. Featuring modular architecture and file-based routing via expo-router, it supports real-time media uploads, local storage of user sessions, and a responsive UI tailored for inclusivity. The app leverages TypeScript and high-performance libraries like flash-list and luxon to ensure scalability and smooth user interaction across Android and iOS.

[View project on GitHub](#) 

- **VMS - 2024**

Vehicle Management System (VMS) is a desktop application developed in Java using Swing for a modular UI design, encompassing vehicle, stock, employee, and service workflows. It integrates MySQL for backend operations with dynamic configuration via dotenv-java, and visualizes key metrics through embedded JFreeChart panels. The build is automated with Apache Ant and CI is streamlined using GitHub Actions, reflecting best practices in environment management and development lifecycle automation.

[View project on GitHub](#) 

2018 - 2023

M.E.E.T.I.
Sri Lanka.

Diploma in Mechatronics Engineering (Robotic & Computer Technology)

Mentored by Prof. Dr. A.P. Jayasinghe and Eng. S.N. Jayasinghe.

2 year Certification program in Robotics & Computer Technology with 3 year Diploma special in electronic engineering at Micro Electronic Engineering Training Institute (MEETI) - Sri Lanka.
Hands-on experience with 30+ sensor modules

Top Projects:

- **Analog Line-Following Robot - 2020**

Analog Line-Following Robot (Electronics-Only Design) — Developed a cost-effective autonomous robot using pure electronic components without any microcontroller programming. Leveraged LED-LDR pairs for line detection, replacing conventional IR sensor modules. Utilized an LM393 dual voltage comparator IC (DIP) to translate analog light intensity variations into discrete motor control logic. Integrated S8550 transistor-based motor driver circuitry to control DC geared reduction motors, enabling responsive navigation along high-contrast paths. This project demonstrates ingenuity in signal conditioning, analog control systems, and minimalist hardware design.

- **Robo Arm - 2019**

Robotic Arm Controller — Designed and built a microcontroller-driven robotic arm using Arduino Uno and three servo motors for base rotation, elbow articulation, and end-effector control. Programmed motor movements to perform object collection tasks, showcasing precision control through PWM signals. The project highlights hands-on proficiency in embedded systems, actuator coordination, and low-level hardware programming.

SKILLS

Technical Skills

- Bug-bounding
- Web Accessibility
- Color Theory
- UX Design
- Front-End
- Version Control
- SEO Fundamentals
- Typography

Soft Skills

- Technology Leadership
- Team Management
- Mentorship
- Communication
- Presentation
- Problem Solving
- Decision making
- Strategic Planning

REFERENCES

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