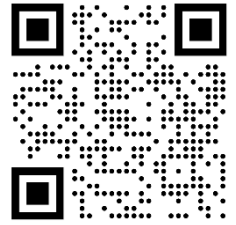


# LAVINDU PERERA

BSc in Physical Science-ICT

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## ABOUT ME

Passionate Physical Science undergraduate specializing in software development and AI. Skilled in **JavaScript, Java, and Python**, with hands-on experience in **full-stack development, cloud technologies, and AI-driven applications**. Experienced in leading tech projects, organizing hackathons, and delivering solutions that bridge innovation and real-world impact. Strong analytical mindset backed by a multidisciplinary background in **Mathematics, Physics, and ICT**. Eager to grow as a developer, explore scalable architectures, and contribute to meaningful, future-focused technology.

## EDUCATION

**University of Sri Jayewardenepura,**  
Department of Computer Science,  
BSc Physical Science ICT, May 2023 – Present

## SKILLS

- **Technical Skills:** O Object-Oriented Programming, Full Stack Development, IoT, Embedded Systems, Test Automation (Selenium).
- **Languages and frameworks:** C, Java, JavaScript, Python, React, Nodejs, SpringBoot.
- **Developer Tools:** Git, Linux, Postman, VS Code, IntelliJ, PyCharm.
- **Databases:** PostgreSQL, MySQL, MongoDB.

## CERTIFICATIONS

- **The Complete 2024 Web Development Bootcamp (UDEMY)**
- **Meta frontend developer (Coursera)**
- **React - The Complete Guide 2024 (incl. Next.js, Redux)**

## ACHIEVEMENTS

- IEEE Region 10 (Asia - Pacific) outstanding volunteer.
- Secured 2nd place at *IdeaForge* (University of Kelaniya).
- Ranked among the Top 10 in IEEE INSL Colombo District (IEEE Young Professionals).
- Recognized as a Top 10 team in *Agcelarator* (Sri Lanka Agripreneurs Forum).

## PROJECTS

### UniSync (ReactJS, SpringBoot, PostgreSQL)

- Architected a centralized university platform to unify academic workflows, streamline internal communication, and facilitate event planning and resource coordination. Crafted interactive, user-centric UIs using ReactJS to improve usability and engagement across student and administrative portals.

### FreshPlus (ReactJS, Nodejs, MongoDB)

- Created a direct-to-consumer marketplace connecting farmers with buyers, cutting out intermediaries to support fair pricing and better access to fresh produce. Built robust backend services with Node.js and MongoDB to handle user authentication, inventory, and order processing securely and efficiently.

### Chat with PDF (Next.js, TypeScript, OpenAI, Pinecone, Stripe Checkout, Clerk)

- Developed an AI-powered analysis app that enables users to upload, query, and extract key insights from PDFs using OpenAI and Pinecone. Engineered a scalable, responsive frontend with Next.js and TypeScript, optimizing performance for real-time PDF querying and analysis

### Smart Gas Shut Off System (React-native, Firebase, Node.js, Arduino, Expo)

- Designed and built an IoT safety system for my 3<sup>rd</sup> year IOT project using ESP32 and MQ-2 sensor to detect gas leaks and automatically shut off gas supply via solenoid valve. Implemented real-time monitoring with React Native mobile app, Firebase cloud integration, and Node.js backend for instant push notifications.

## LEADERSHIP & VOLUNTEERING

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**Chairperson** — *IEEE Computer Society, University of Sri Jayewardenepura*

2024 - present

- Founded the first-ever student-led cloud hackathon, BeautyOfCloud 1.0, under IEEE USJ.
- Launched AlgoAce, USJ's exclusive algorithmic workshop series, with over 150 participants.

**Assistant Secretary** — *IEEE Student Branch, University of Sri Jayewardenepura*

2023 - 2024

- Coordinated branch-wide events, documented operations, and supported cross-functional planning and reporting efforts.

**Project Chair** – *J'puraXtreme 1.0, IEEE Student Branch, University of Sri Jayewardenepura*

May 2023 – September 2024

- Directed the first inter-university hackathon at USJ, attracting 300+ teams in the opening round and elevating the university's visibility in the tech community.

## REFERENCES

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**Prof. P. Ravindra S. De Silva**

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*University of Sri Jayewardenepura*

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**Mr. Hemal Perera**

*Site Reliability Engineer,*

*SyscoLabs*

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