

# JANITH ATHTHANAYAKA

BSc. (Hons) in Eng. (Undergraduate)



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🌐 [janithaththanayaka.com](http://janithaththanayaka.com) | 💻 [GitHub](#) | 💼 [LinkedIn](#) | 🤖 [Google Developer](#)

## 🔧 PROFESSIONAL SUMMARY

Final-year Information & Communication Engineering undergraduate with hands-on experience in web development, mobile apps, machine learning, and robotics. Skilled in Python, Flutter, and PHP, passionate about designing smart, real-world solutions across mobile, web, and embedded platforms. Experienced in leading technical teams and currently advancing AI knowledge through Google Developer ML courses.

Google for Developer Profile: [g.dev/janithaththanayaka](https://g.dev/janithaththanayaka)

## 🎓 EDUCATION

**Bachelor of Science (Honors) in Engineering in Information & Communication Engineering**  
SLTC Research University, Sri Lanka  
*March 2021 – Present*

**Primary & Secondary Education**  
Mahinda College, Galle, Sri Lanka  
*2006 – 2019*

## 🏆 LEADERSHIP & ACHIEVEMENTS

- Assistant Treasurer, IEEE Student Branch, SLTC (2023/24)
- IRP Coordinator, IEEE Student Branch, SLTC (2023/24)
- Deputy Logistics Team Leader, Codemania v3.0 (2022)
- **Coding Competitions:**
  - Codemania v4.0 – 4th place
  - IEEEExtreme 17.0 | MoraXtreme 8.0

## 🔧 TECHNICAL SKILLS

- ✓ **Web & Mobile Development:** HTML, CSS, JavaScript, PHP, Bootstrap, Flutter, WordPress
- ✓ **Backend & Database:** Python, MySQL, PHP
- ✓ **AI & Robotics:** Machine Learning, Deep Learning (RNN, BiLSTM), EEG Signal Processing, Arduino, ESP32, L298N Motor Driver, MQTT
- ✓ **Tools & Platforms:** Git, Android Studio, MPLAB IDE, Visual Studio Code, Figma, Photoshop
- ✓ **Soft Skills:** Agile Workflow, Team Collaboration, Communication, Leadership

## 🚀 PROJECT EXPERIENCE

### 🧠 Final Year Project (80% Complete) Navigation of Mobile Robot Based on Intuitive Control Using Brain-Computer Interface

- Developed a brain-controlled robot car using EEG motor imagery signals.
- Integrated RNN-based deep learning model for real-time classification.
- Utilized MQTT protocol to communicate movement commands to an ESP32-controlled robot with L298 motor driver.
- Designed a Python web app to visually present system flow and robot simulation.

### 📱 Flutter Mobile App for Currency Exchange (2025)

- Built a Flutter Android application for a currency exchange business.
- Allowed manual input of exchange rates and real-time currency conversion to LKR.
- Added dynamic bill generation and QR code display panel for crypto payments.

### 🌐 Freelance Web Development Projects

- **Sri Lanka Divers** ([srilankadivers.com](http://srilankadivers.com)) – Dive services website with contact form.
- **Sea Souls Diving** ([seasoulsdiving.com](http://seasoulsdiving.com)) – SEO-optimized, visually appealing dive website.
- **Charly Travel & Tours** ([charlytravelandtours.com](http://charlytravelandtours.com)) – Travel agency website.

### 🔧 Other Technical Projects

- Emergency Communication System – Microcontroller-based alert system (C programming).
- Web-Based Attendance Management System – Barcode-based tracker using PHP and MySQL.

## 🌟 PASSIONS & INTERESTS

Websites & Frontend Development  
Robotics & Embedded Systems  
Brain-Computer Interfaces

AI, Machine Learning & Deep Learning  
Mobile App Development  
Competitive Coding & Hackathons