

PRAMUDA KULATHUNGA

BSc. (Hon's) in Computer Engineering (UG), University of Jaffna

pramudakulathunga@gmail.com - [LinkedIn](#) - +94781266460

No: 82/A, Hapugahalandawatta Rd, Kaudupalalla, Matale

PROFILE

A results-oriented and motivated Computer Engineering undergraduate in University of Jaffna with a strong foundation in full stack development and a proven ability to deliver robust software solutions. Possesses hands-on experience in designing, developing, and integrating cross platform mobile applications using React Native and web applications using the React. Proficient in leveraging cloud platforms like Firebase for backend services, real time databases, and authentication. A collaborative team player with excellent problem-solving skills, adept at working in agile environments to meet project deadlines and objectives.

PROJECTS

Automatic Metadata Generate for YouTube Videos

Jan 2025 - Present

Research (Group)

[\[GitHub\]](#)

- Final year research: T5-based generation of YouTube video titles, tags, and descriptions
- Chrome extension with FastAPI backend for smooth metadata automation

Technologies: ResNeXt-101, Kaldi, Whisper, BERT, T5, Chrome extension, Ollama, llama3:8b

E legend's trophy scoring app and controlling dashboard

May 2025 - Sep 2025

Android app developer & web dashboard developer

[\[LinkedIn\]](#) [\[GitHub\]](#)

- Engineered a dual platform system with a React Native mobile app and a React.js admin dashboard for real time cricket scoring.

Android app download link: [E Legends Trophy 2k25](#)

Technologies: React JS, React Native, Firebase, ImageBB, Vercel

MediTrack - Patient tracking and health monitoring system

Aug 2025 - Present

Frontend developer & backend developer

[\[LinkedIn\]](#) [\[GitHub\]](#)

- Developing a full-stack patient monitoring system using React.js and Firebase.
- The system manages EHRs and streams real-time vitals to an interactive dashboard

Technologies: React JS, Firebase, Postman

SmartTrack - IoT vehicle monitoring and control system

Feb 2025 - Sep 2025

Android app developer (Group project)

[\[LinkedIn\]](#) [\[GitHub\]](#)

- Built the React Native Android application featuring live vehicle tracking, a car rental module, and instant emergency push notifications for service owners.

Technologies: React Native, Firebase, IoT Integration

Web developing project for IEEE RAS SBC UOI

Aug 2024 - Present

Team Coordinator & Frontend Developer (Group project)

[\[Figma\]](#) [\[GitHub\]](#)

Technologies: React JS, Figma

HomeSphere - smart multiplug

May 2024 - Oct 2025

Android app developer & product casing designer (Group project)

[\[LinkedIn\]](#) [\[GitHub\]](#)

- Engineered a cross-platform React Native app for HomeSphere, enabling remote IoT appliance control and interactive energy usage visualization via Firebase integration.

Technologies: React Native, Firebase, IoT Systems

VOLUNTEERING

IEEE Robotics & Automation Society (RAS)

- Chairman (2024 - PRESENT)
- Vice Chairman (2023 - 2024)

- Leading multiple key initiatives for IEEE RAS, including the Arduino Esplora 2025, BoostBot Mentorship Program, and technical sessions on Web Development and Tech Talks.

COURSE WORKS TASKS

California Housing Price Predictor

[\[GitHub\]](#) [\[LinkedIn\]](#)

Technologies: React JS, Python, Machine Learning (Scikit-learn), Heroku, Vercel

Fixora - Smart Hostel Complaint Submitting System (Group)

[\[GitHub\]](#) [\[LinkedIn\]](#) [\[Figma\]](#)

Technologies: React Native, Firebase, Cloudinary

Robot Arm Color Sorting System

[\[GitHub\]](#) [\[LinkedIn\]](#)

Technologies: Python, openCV

Computer Eng. Department Management System (Group)

[\[GitHub\]](#) [\[Figma\]](#)

Technologies: React JS, MySQL, Node JS, Express JS

TECHNICAL SKILLS

Programming Language	C++, Java, JavaScript, Python, HTML, Tailwind CSS
Frameworks	React JS, React Native, Node JS, Express JS
Databases	MySQL, Firebase, MongoDB
Tools	Git, Figma, Jupyter Notebook, Postman, Jira, ImageBB, Claudinary
Embedded System	Arduino, ESP

AWARDS & ACHIEVEMENTS

- IEEE Young Protege Mentoring Program 2025 (MediTrack Project)
- IEEEExtreme 2024 (108th All-Island and 6th place of SBC UOI)
- SLRC line following robotics competition 2024

REFERENCE

Dr. (Eng.) A. Kaneswaran

Dean,
Faculty of Engineering,
University of Jaffna.
Senior Lecturer Grade II,
Phone: +94 772 042 863
Email: kanesh@eng.jfn.ac.lk

Dr. (Mrs.) J. Jananie

Senior Lecturer Grade II,
Department of Computer Engineering,
Faculty of Engineering,
University of Jaffna.
Phone: +94 704 904 957
Email: jananie@eng.jfn.ac.lk