

THUSHAN MALAKA RANASINGHE

[LinkedIn](#) | [+94 717886186](#) | [Thushan](#) | [thushanmalaka123@gmail.com](#) | [GitHub](#)

Skills

- **Programming Languages:** Python, Java, C++, PHP, JavaScript, TypeScript
- **Databases:** MySQL, MongoDB, SQLite, PostgreSQL
- **Web Technologies:** CSS, HTML, React, Node.js, Express, PHP
- **Tools & Methodologies:** GitHub, Git, Jira, Agile

Work Experience

- **2025 March – 2025 September**
Internship – Sri Lanka Telecom (SLT)

Education

- **2021 April – 2025 November**
Bachelor of Science in Computer Engineering (University of Jaffna)

Projects

- **Task Manager :**
Built a scalable and modular task management system using NestJS, TypeScript and PostgreSQL. Implemented RESTful API endpoints, JWT-based authentication, role-based access control (RBAC) and data validation using class-validator. Utilized TypeORM for database interaction. Designed for seamless integration with frontend clients (REACT). Deployed it using services like Render, Vercel and Neon.
- **React Native Mobile Application :**
Developed a mobile application using React Native, integrating Firebase Authentication for secure user login, registration and user profile management. Utilized the Game of Thrones API to dynamically display character information, ensuring smooth navigation and responsive UI design.
- **Lab Booking System :**
Developed a web-based laboratory booking system using MERN stack (MongoDB, Express.js, React.js, Node.js). Integrated JWT-based authentication, RESTful APIs, and MUI for responsive UI. Implemented user role management, session handling, and real-time updates to ensure secure and efficient lab usage scheduling.
- **Tasklet :**
Tasklet is a cross-platform mobile productivity app developed with React Native, Expo, and TypeScript. It features a shopping list, a task countdown timer with push notifications, and an idea note section, all backed by AsyncStorage for persistent local data. The app also integrates haptic feedback, confetti animations, and date formatting using date-fns,
- **sDesk :**
sDesk is a custom-built service desk system developed during my internship at SLT, designed to manage incidents, users, and technicians with secure Microsoft Azure authentication and a modern full-stack tech stack (React, NestJS, PostgreSQL).
- **Workload Prediction in Cloud Computing :**
Conducting research on improving workload forecasting in cloud computing, investigating whether a Temporal Convolutional Network (TCN) combined with an attention mechanism offers superior performance.

Certifications and Awards

- Introduction to Web Development (Aug 2020)
- Python Data Structures (Sep 2020)
- Google IT Support (Nov 2020)
- IEEE Xtreme 17.0 (Oct 2023)
- IEEE Xtreme 16.0 (Oct 2022)

References

Dr. (Mrs.) J. Jananie
Senior Lecturer Grade II
Department of Computer Engineering,
Faculty of Engineering,
University of Jaffna
jananie@eng.jfn.ac.lk / +94 704904957

Mr. Y. Pirunthapan,
Lecturer,
Department of Computer Engineering,
Faculty of Engineering,
University of Jaffna
pirunthapan@eng.jfn.ac.lk