

# THUSHAN MALAKA RANASINGHE

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## Profile

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Full-stack developer with hands-on experience in building scalable web and mobile applications using React, NestJS, PostgreSQL and Firebase. Skilled in designing RESTful APIs, implementing secure authentication (JWT, Azure AD) and deploying applications on cloud platforms. Strong problem-solving ability with a background in Computer Engineering and experience delivering production-ready systems during internship at Sri Lanka Telecom.

## Skills

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- **Programming Languages:** Python, Java, C++, JavaScript, TypeScript
- **Web & Frameworks:** React, Node.js, Express, Next.js, React Native, TailwindCSS
- **Databases:** PostgreSQL, MySQL, MongoDB, SQLite
- **Tools & Methodologies:** Git, GitHub, Jira, Agile, TypeORM, Firebase
- **Other:** RESTful APIs, JWT Authentication, Azure AD

## Work Experience

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- **Full Stack Developer Intern - Sri Lanka Telecom (SLT)**  
Mar 2025 – Sep 2025
  - Designed a custom Service Desk system (sDesk) using React, NestJS and PostgreSQL.
  - Integrated Microsoft Azure Active Directory for secure authentication and user synchronization.
  - Developed real-time incident broadcasting using Socket.IO, improving technician response times.
  - Collaborated with cross-functional teams under Agile methodology using Git and Jira for version control and tracking.
  - Enhanced system reliability by applying best practices in RESTful API design and database optimization.

## Education

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- **Bachelor of the Science of Engineering (BSc Eng) in Computer Engineering**  
Apr 2021 – Nov 2025

## Projects

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- **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.  
**Key Technologies :** NestJS, TypeScript, PostgreSQL, TypeORM, React, JWT, Render, Vercel, 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.  
**Key Technologies :** React Native, Firebase Authentication
- **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 responsive UI. Implemented user role management, session handling, and real-time updates to ensure secure and efficient lab usage scheduling.  
**Key Technologies :** MERN stack (MongoDB, Express.js, React.js, Node.js), JWT, REST APIs
- **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,  
**Key Technologies :** React Native, Expo, TypeScript, AsyncStorage, date-fns, push notifications, haptics

- **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).

**Key Technologies :** React, NestJS, PostgreSQL, Azure AD, Socket.IO

- **Beat Music\_∞ :**

Beats Music is a Next.js and React application built with TypeScript and TailwindCSS, featuring Firebase Authentication with email/password and Google sign-in. It allows users to sign up or log in, then explore a demo music interface that includes a lyric-aware player, playlists and static sample releases.

**Key Technologies :** Next.js, React, TypeScript, TailwindCSS, Firebase Authentication

## Certifications and Awards

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- Python Data Structures (Sep 2020)
- Google IT Support (Nov 2020)
- Introduction to Web Development (Aug 2020)
- React Native (Jun 2025)
- IEEE Xtreme 17.0 (Oct 2023)
- IEEE Xtreme 16.0 (Oct 2022)

## Soft Skills

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- Problem-Solving & Critical Thinking.
- Team Collaboration & Communication.
- Leadership & Mentorship.
- Adaptability & Continuous Learning.
- Time Management & Prioritization.

## References

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