

# CHANITH NILRUKA TRANCHAL

Software Engineering Undergraduate | SLIIT



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## SUMMARY

Software Engineering undergraduate at SLIIT with hands-on experience in Java, C#, and JavaScript, gained through building full-stack web applications and desktop systems. Knowledgeable in Agile development methodologies, RESTful APIs, and database-driven applications. Strong problem-solving skills with a willingness to learn new technologies and collaborate within cross-functional teams. Actively seeking a full-time (8 hours/day), 12-month software engineering internship with immediate availability

## TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript, C#, Python, SQL, C, C++

**Frameworks & Tools:** React, Node.js, Express.js, Firebase, MongoDB, React Native, Kotlin, Git

**Software Engineering Concepts:** Object-Oriented Programming (OOP), MVC Architecture, REST APIs, CRUD Operations, Agile Development, Responsive Design

**Databases:** MySQL, SQL Server, MongoDB

## PROJECTS

### AI-Powered Tutoring Platform | Next.js, Supabase, Clerk, Vapi AI, Tailwind CSS, TypeScript

- Designed and developed a full-stack SaaS application providing AI-powered voice tutoring functionality.
- Implemented secure authentication, subscription management, and real-time database integration.
- Applied modular architecture and type-safe validation to ensure maintainable and scalable code.
- Developed the project using Agile principles, iterative feature delivery, and Git-based version control.

[View Application](#)

### Diagnostic Center Management System | Desktop App in C# / .NET

- Developed a desktop-based management system to automate diagnostic center operations.
- Implemented modules for patient management, test booking, billing, and medical report generation.
- Designed and integrated a relational SQL database to manage patient records and transactions.
- Automated manual workflows, improving data accuracy and operational efficiency.

### Electricity Billing System | Core Java (Swing & AWT)

- Built a Java-based desktop application to manage electricity billing and customer records.
- Implemented unit consumption calculations, bill generation, and customer data storage.
- Applied object-oriented programming principles to ensure modular and maintainable code.
- Digitized billing processes to improve accessibility and usability for end users.

## EDUCATION

### SLIIT BSc Hons in Information Technology Specialization in Software Engineering

Oct 2022 - Present

**Relevant Coursework:** Object-Oriented Programming, Data Structures, Web Technologies, Database Systems

### ESOFT Diploma in Information Technology

Mar 2022 - Mar 2023

### St.Peter's College - Bambalapitiya

Jan 2007 - Mar 2021

## CERTIFICATIONS

Full Stack Web Development – Simplilearn  
Introduction to MERN Stack– Simplilearn  
Natural Language Processing– Simplilearn  
Project Management PMP Certification – Simplilearn

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## SOFT SKILLS

Willingness to Learn  
Problem Solving  
Team Collaboration  
Attention to Detail

Fast Learner  
Effective Communication  
Fluent in English