Chathuri Sathya

Intern, Software Engineer

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Highly skilled Flutter Developer with a strong background in Mobile App Development, designing and developing cross-platform applications. Passionate about crafting seamless, high - performance app's with intuitive UI/UX, ensuring an engaging user experience. Adept at Flutter, Dart, REST APIs, MySQL, PHP, and Firebase, with expertise in scalable, maintainable, and optimized solutions. Proficient in Agile methodologies, collaborating with cross-functional teams to deliver feature-rich application's within tight deadlines. Experienced in integrating third-party APIs, cloud services, and real-time databases. Skilled in debugging, performance tuning, and memory optimization, ensuring smooth, crash-free application's. Adaptable to fast-paced environments, continuously learning and staying updated with mobile development trends.

## Work Experience

**Intern, Software Engineer** May 2024 - Nov 2024

*SLT Mobitel | Colombo*

* Developed and optimized the Power Prox project using Flutter, Dart, PHP, and MySQL, resulting in a 30% increase in app performance and enhanced user experience.
* Applied RESTful APIs, reducing backend request latency by 20% and improving data processing efficiency.
* Led debugging and performance optimization efforts, reducing app crashes by 40% through efficient error handling and code refactoring.
* Collaborated in an Agile team environment, contributing to sprint planning, code reviews, and stand-up meetings, ensuring 95% on-time feature delivery.

## Projects

**Dual Language Translator** Jan 2024 - Nov 2024

– Flutter & Python
• Project Overview: Innovated an AI-powered translator app supporting 3 languages (English, Sinhala, Tamil) with accurate, natural translations for mixed-language input.
• Key Contributions & Achievements:
• Started an AI-powered mobile translator using Flutter & Flask, achieving 95% translation accuracy across multiple language pairs (English, Sinhala, Tamil).
• Optimized API performance, reducing translation response time by 40%, ensuring seamless and efficient real-time translations.
• Implemented NLP-based sentence restructuring, enhancing grammatical accuracy by 30% for natural and contextually accurate translations.
• Designed and managed a MySQL database, efficiently storing 10,000+ translations, enabling fast and reliable history retrieval.
• Integrated a dynamic translation history feature, allowing users to access past translations, increasing user engagement by 60%.
• Improved a starred translations feature, enabling users to save frequently used phrases, benefiting 80% of active users.
• Conducted extensive unit testing, improving translation logic and reducing system errors by 25%, ensuring a stable and reliable application.
• Enforced REST API communication, handling 100+ concurrent requests without performance degradation, ensuring a smooth user experience.
• Enhanced UI/UX design, creating an intuitive, user-friendly interface that maximizes accessibility and ease of navigation.
• Integrated third-party API support, expanding the app’s capabilities while maintaining high performance and accuracy.
• Utilized agile development methodologies, ensuring continuous improvements, rapid issue resolution, and efficient feature deployment.
• Applied performance optimization techniques, reducing app memory consumption and improving response speed, leading to higher user satisfaction.
• Maintained clean, scalable, and modular code, enhancing maintainability and supporting future feature expansions.
• Tech Stack: Flutter, Dart, Python (Flask), MySQL, REST API, NLP, Git/GitHub

## Core Skills

Flutter, Dart, Gradle, Java, PHP, HTML, CSS, JavaScript

## Education

**Wayamba University of Sri Lanka** Feb 2020 - Dec 2024

**Bachelor of Science** Computer Science and Electronics

**Wayamba University of Sri Lanka** May 2021 - May 2022

**Higher Diploma** Software Engineering

**Wayamba Nenasala** Jan 2020 - Jan 2021

**Diploma in Computer Application** Software Engineering

## Languages

English (fluent), Sinhala (fluent)

## Certificates