

Inkithai Meiyalagan

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Colombo, Sri Lanka

SUMMARY

Full-stack Software Engineer specializing in AI-driven systems, LLM integrations, and scalable backend architectures. Experienced in building production-grade applications including AI-powered learning platforms, email automation systems, and intelligent document processing pipelines. Strong proficiency in JavaScript/TypeScript, Python, React, Next.js, Node.js, and cloud AI services such as OpenAI and Gemini. Passionate about designing efficient, user-focused systems and delivering impactful software in agile environments.

SKILLS

Languages : JavaScript, TypeScript, Python, Java, PHP
Frontend : React.js, Next.js, Angular, Tailwind CSS, HTML, CSS, Material UI, ShadCN
Backend : Node.js, Express.js, FastAPI, Django, Laravel, REST APIs
AI/ML : OpenAI, Gemini, RAG, NLP, OCR (Tesseract.js), Embeddings
Databases : MongoDB, PostgreSQL, MySQL, Supabase
Cloud/DevOps : Google Cloud, AWS, Docker, CI/CD, GitHub Actions
Tools : Git, GitHub, Jira, Figma

EDUCATION

Sri Lanka Institute of Information Technology

Jan 2021 - June 2025

BSc (Hons) in Information Technology, specializing in Information Technology

PROFESSIONAL EXPERIENCE

WIS, Associate Software Engineer

July 2025- Nov 2025

EduFlow — AI-Powered LMS

- Developed and deployed a production-ready LMS with AI-driven learning features.
- Built an AI voice assistant with contextual Q&A, OCR fallback, and Google TTS.
- Developed AI-based assessment generation using PDF/PPT extraction and adaptive MCQs.
- Implemented intelligent tutoring system with real-time feedback.
- Built document processing pipelines (PDF, PPT, OCR) for AI reasoning.
- Integrated multiple LLM providers (OpenAI, Gemini, OpenRouter) with fallback logic.

Drafty.AI — AI Email Automation Platform

- Built real-time voice-to-email dictation module.
- Integrated Gemini for email summarization and content generation.
- Developed Gmail-like filtering system with classification and confidence scoring.
- Integrated Google Calendar API for scheduling and meeting automation.

XYGen.ai

Associate Software Engineer

Jan 2025 - June 2025

- Implemented full-stack features using Next.js, Node.js, TypeScript, and cloud hosted APIs.
- Developed internal AI-driven tools with LLM-based automation, summarization, and validation pipelines for Legal Docs Summarization platform.
- Designed reusable backend modules and API utilities to improve dev productivity.
- Enhanced UI workflows using React, Tailwind, ShadCN, and optimized clientside rendering.
- Worked in Agile sprints with structured code reviews and CI/CD deployment workflows.

Junior Software Engineer

Jul 2024- Dec 2024

- Developed backend services using Node.js, Express, and contributed to internal microservices.
- Implemented reusable UI components using React, Next.js, and optimized client interactions.
- Integrated third-party APIs and improved server response times through query optimization.
- Built a Laravel-based admin dashboard with CRUD modules, RBAC, and API integrations.

Intern Software Engineer

Jan 2024 - Jun 2024

- Developed frontend components in React.js.
- Wrote API routes and utility functions using Node.js and REST design patterns.
- Contributed to dashboard development using Angular.

PUBLICATIONS

IEEE Publication -ICAC 2024 Conference

<https://ieeexplore.ieee.org/document/10850992>

A Python web-based machine learning and artificial intelligence research project that analyzes academic, relational, economic, and social influences on university student happiness. This study leverages AI models and data analytics to provide insights, making it a significant contribution to the field of educational technology and well-being.

REFERENCES

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