

CHAMIKA THENNAKOON

Associate Software Engineer

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Associate Software Engineer with hands-on experience in full-stack development, AI engineering, and enterprise software solutions. Proven ability to design, develop, and deploy scalable web and mobile applications while integrating artificial intelligence, computer vision, OCR, and NLP technologies to solve real-world business challenges. Experienced in backend development, API design, cloud-based AI services, and modern software architectures using React, React Native, Node.js, Django, Python, and Azure technologies.

WORK EXPERIENCES

Associate Software Engineer | Full-time

Sep 2025 - Present

Circlebook Pvt Ltd

Hybrid

- Developed **Humaink**, an **AI-integrated workplace intelligence platform**, recognized in the Accelerating Asia startup ecosystem.
- Designed and implemented an AI-integrated administration console using Django, **reducing manual administrative effort by approximately 40%** through workflow automation.
- Built and maintained full-stack web applications with **React, Node.js, and Express.js**, creating **RESTful APIs** and adhering to **Agile practices**.
- Developed the **Humaink mobile application**, incorporating real-time messaging and voice-calling features.
- Engineered backend services and APIs, integrating **WhatsApp Business** communication workflows to enhance **AI-driven engagement and automation**.
- Designed and created **AI agents** using **Azure AI Foundry** and **Model Context Protocol (MCP)** to facilitate intelligent workflow automation and enterprise system integration.

Technologies / Skills Used : Django, React, Node.js, Express.js, WhatsApp Business, Azure AI Foundry

AI Engineer Internship | Internship

Mar 2025 - Sep 2025

Enadoc Pvt Ltd

- Co-developed a **real-time face verification module** with webcam auto-capture of identity card and face detection.
- Integrated it into a face verification system using **Azure Face API**.
- Contributed to a CNN-based OCR system for scanned form field detection with LLM-assisted autofill, **reducing manual data entry by approximately 70%**.
- Assigned to development tasks for **Evia**, contributing as part of the product engineering team.
- Developed an **OCR system** to recognize handwritten Sinhala words and store results in a local database.
- Contributed to a government project that extracted data from documents using OCR and stored the results locally using LLMs.

Technologies / Skills Used : Azure Face API, CNN, OCR

PROJECTS

AI-Driven Adaptive Caching Framework for Optimizing Microservice Performance - Ongoing Research | 🐙 Github

- Architecting an AI-driven adaptive caching framework for microservices with intelligent cache management, multi-level caching, and event-driven orchestration.
- Building an event-aware orchestration pipeline leveraging RAG, API metadata, and OpenTelemetry to optimize cache prewarming, resource utilization, and service latency.

Technologies / Tools Used : Microservice, Kubernetes, Docker, Python, Node

Microservices-Based Medical Workflow Management System | 🐙 Github

- Developed a scalable healthcare platform using microservices, enabling patient management, doctor consultations, telemedicine, and cloud-native deployment.
- Built an AI-powered symptom checker with Google Gemini and LangGraph, delivering symptom analysis, adaptive follow-up questions, and personalized insights.
- Integrated Jitsi, Socketio, RabbitMQ, SMS notifications, and Stripe to enable video consultations, real-time messaging, secure payments, and reliable communication.

Technologies / Tools Used : microservices architecture, Docker, Kubernetes, LangGraph, Jitsi, Socket.IO, RabbitMQ, Stripe

Agentic Document Analysing System | 🐙 Github

- Developed an AI-powered document processing system using Python, FastAPI, OpenCV, and Tesseract OCR, boosting OCR accuracy with advanced preprocessing.
- Built a custom document classification model in PyTorch and implemented entity extraction for structured storage in JSON and vector databases.
- Created an Agentic RAG chatbot with React and LangChain, combining semantic and keyword search for fast, context-aware document retrieval.

Technologies / Tools Used : Python, FastAPI, OpenCV, Tesseract OCR, PyTorch, React, LangChain

SKILLS

Databases :	MySQL, MongoDB, Firebase
Frameworks & Libraries :	React, Node, Express, Django, React Native, FastAPI, Next.js
Programming Languages :	Java, Python, JavaScript, TypeScript, C++
Tools & Platforms :	Docker, Git, Copilot Studio, Azure Services, GitHub Actions, CI/CD, Postman, Linux
Architectures & Infrastructure :	MCP Servers, OOP, CNN, RAG, REST APIs, n8n
Soft Skills :	Problem Solving, Time Management, Analytical Thinking, Leadership, Teamwork, Adaptability

EDUCATIONS

Sri Lanka Institute of Information Technology (SLIIT)

May 2023

BSc (Hons) in Information Technology

- Specializing in **Software Engineering**