

RANDIMA SILVA

SOFTWARE ENGINEER (Full Stack / DevOps / AI)

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PROFESSIONAL SUMMARY

AI-focused Full-Stack Engineer with 3.5+ years of industry experience building intelligent, production-grade systems across web, mobile, and cloud environments. Experienced in architecting AI-powered applications including LLM-driven automation pipelines, NLP-based summarization systems, generative media workflows, and computer vision models. Strong expertise in JavaScript/TypeScript (React, Node.js/NestJS), cloud-native infrastructure (Docker, Kubernetes, AWS), and scalable API design. Proven ability to take AI concepts from prototype to production, optimize performance, and maintain high system reliability. Passionate about building AI-native products that deliver real-world value and evolve through data-driven iteration.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, PHP, SQL

Frontend: React, Next.js, Tailwind CSS, HTML, CSS

Backend: Node.js, Express, NestJS, Flask; Supabase, Firebase

Mobile: React Native, Expo

Databases: MongoDB, MySQL, DynamoDB; Prisma ORM; SQLite

DevOps/Cloud: Docker, Kubernetes, GitHub Actions, AWS (EKS, ECS, Elastic Beanstalk, CI/CD), GCP, Cloudflare

AI/ML & Data: LLM/Agents, NLP/Transformers, PyTorch, TensorFlow, OpenCV, YOLOv8; Pandas, NumPy, Matplotlib, Seaborn, scikit-learn

Tools: Git, Linux, FFmpeg, Postman

EXPERIENCE

Software Engineer — Central Park Puppies Inc.

2024 – Present

- Build greenfield automation and AI-driven internal products to eliminate repetitive manual work and improve productivity.
- Delivered a customer-facing chatbot integrated with internal databases to fetch real-time data, automate appointment booking, and trigger calls—reducing routine sales queries and manual workload.
- Led development of an in-house analytics and tracking platform (server-side tracking + dashboards) to improve accuracy beyond third-party tools and support data-driven marketing decisions.
- Contributing to VirolNow.ai: pipeline to import product/media assets, analyze with AI, generate scripts + voiceovers, and auto-produce short-form ad videos for Meta, TikTok and YouTube Shorts used in live campaigns.
- Own CI/CD and deployments using Docker, Kubernetes and GitHub Actions on AWS; support production monitoring and reliability.

Full Stack Developer — LAYOUTindex | Colombo, Sri Lanka

2023 - 2024

- Designed and implemented real-time seat availability for the Cinesync Cinema Platform, improving booking correctness and user experience.
- Built authentication/authorization APIs to verify organizations and showtimes, enforce access keys, and manage permissions for UK-based cinema clients.
- Collaborated with clients and engineering teams to gather requirements, design solutions, and deliver multiple production features with a focus on performance and reliability.

Marketing Associate — Softlogic Life Insurance

2020 – 2021

- Supported marketing and client engagement initiatives; strengthened communication and analysis skills in a corporate environment.

SELECTED PROJECTS

VioINow.ai — AI Marketing Video Automation Platform

- Contributing to VioINow.ai: pipeline to import product/media assets, analyze with AI, generate scripts + voiceovers, and auto-produce short-form ad videos for Meta, TikTok and YouTube Shorts used in live campaigns.

iskolelk.com — Past Papers Platform (Web + Mobile App)

Tech: Next.js, Node.js, MongoDB, React Native, Docker, Kubernetes, GitHub Actions, Cloudflare; Bare-metal infrastructure

- Built and operate a live platform providing Sri Lankan students access to past papers and marking schemes (2000–2024).
- Maintains ~10,000 monthly unique visitors; deployed and maintained end-to-end on a self-managed bare-metal server with Docker/Kubernetes and automated CI/CD.

NewsCrape.AI — Automated News Scraping & AI Summarization

Tech: NLP/Transformers, Puppeteer, Next.js, Tailwind CSS, Node.js/Express, Flask, MongoDB, Jest/PyTest

- Built an automated scraping pipeline and AI summarization workflow for efficient news consumption.
- Developed full-stack architecture with scalable APIs and a responsive UI.

Traffic Violation Detection (IoT + AI)

Tech: Python, OpenCV, YOLOv8, OpenALPR

- Implemented vehicle/plate detection and violation monitoring with real-time computer vision components.

RESEARCH & PUBLICATIONS

Silva, C.R. (2024). Automated News Scraping and AI-Powered Summarization Tool for Efficient News Consumption. Focus: NLP-based summarization, web scraping automation, misinformation detection.

ICTAR 2024 – 1st International Conference on Transformative Applied Research ([Published in proceedings – abstract](#)).

EDUCATION

University of Plymouth (UK) — Affiliated with NSBM Green University

2021 – 2024

BSc (Hons) Computer Science — **First Class Honours**

Vidyartha College, Kandy

G.C.E. A/L (2019) Biology Stream — 3 C passes; G.C.E. O/L (2015) — 6 A, 1 B, 2 C

LICENSES & CERTIFICATIONS

- Complete Generative AI Course with LangChain and Hugging Face — Udemy (Issued Oct 2025) [Certificate](#)
- Complete Linux Training Course to Get Your Dream IT Job 2025 — Udemy (Issued Oct 2025) [Certificate](#)
- FFmpeg - The Complete Guide — Udemy (Issued Oct 2025) [Certificate](#)
- NestJS: The Complete Developer's Guide — Udemy (Issued Oct 2025) [Certificate](#)
- Software Architecture & Design of Modern Large Scale Systems — Udemy (Issued Oct 2025) [Certificate](#)
- Artificial Intelligence A-Z 2024: Build 7 AI + LLM & ChatGPT — Udemy (Issued Jan 2025) [Certificate](#)
- LLM Engineering: Master AI, Large Language Models & Agents — Udemy (Issued Jan 2025) [Certificate](#)
- A deep understanding of deep learning (with Python intro) — Udemy (Issued Dec 2024) [Certificate](#)
- AWS EKS Kubernetes Masterclass | DevOps, Microservices — Udemy (Issued Dec 2024) [Certificate](#)
- Data Structures and Algorithms: Deep Dive Using Java — Udemy (Issued Dec 2024) [Certificate](#)
- Docker & Kubernetes: The Practical Guide [2024 Edition] — Udemy (Issued Dec 2024) [Certificate](#)
- Data Manipulation in Python: Master Python, NumPy & Pandas — Udemy (Issued Jun 2023) [Certificate](#)
- React Native - The Practical Guide [2023] — Udemy (Issued Jun 2023) [Certificate](#)
- Data Cleaning — Kaggle (Issued Jul 2023) [Certificate](#)
- Intro to Deep Learning — Kaggle (Issued Jul 2023) [Certificate](#)
- Intermediate Machine Learning — Kaggle (Issued Jun 2023) [Certificate](#)
- Intro to Machine Learning — Kaggle (Issued Jun 2023) [Certificate](#)
- Diploma in Amazon Web Services — Alison (Issued Jul 2023) [Certificate](#)

LEADERSHIP & ACTIVITIES

- Treasurer — Explorer's Club (NSBM) | 2021 – 2024
- Prefect — Prefects Guild (Vidyartha College) | 2012 – 2018
- Editor — Interact Club (Vidyartha College) | 2017 – 2018
- Rugby Player (Vidyartha College) | 2009 – 2015

LANGUAGES

Sinhala (Native), English (Professional)

REFERENCE

Dr. Rasika Ranaweera — Dean, Faculty of Postgraduate Studies and Professional Advancement, NSBM Green University

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