Chamika Raigama

Intern

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SUMMARY

Motivated Software Engineering undergraduate with a strong interest in Mathematics, Artificial Intelligence, and data-driven systems. Experienced in full-stack web and mobile development, IoT, and cloud platforms. Passionate about building intelligent systems using machine learning and scalable technologies to solve real-world problems.

SKILLS

- **Programming & Scripting Languages:** C, JavaScript, PHP, HTML, CSS, Python
- **Backend Technologies:** Node.js, Express.js, FastAPI, REST API Development, SOAP Web Services
- **Frameworks & Libraries:** React, React Native, Flutter
- **Databases:** MySQL, MongoDB, Firebase Realtime Database
- **Machine Learning & Data Science:** Machine Learning, TensorFlow, Scikit-learn, Pandas, NumPy, Data Preprocessing, Model Evaluation, PySpark, Jupyter Notebook, Power BI, Predictive Analytics
- **Cloud & Backend Services:** AWS (EC2, S3, Lambda, EMR), Firebase
- **DevOps & Tools:** Docker, Kubernetes, CI/CD, GitHub, RabbitMQ, Postman, SoapUI, Tomcat Server
- **Service-Oriented Architecture (SOA) & Integration:** BPEL, UDDI Registry, Service Orchestration, WS-Security, Microservices Architecture
- **UI/UX & Design Tools:** Figma
- **AI & Productivity Tools:** ChatGPT, Claude AI, GitHub Copilot, Google Gemini

EDUCATION

BSc (Hons) in Software Engineering | **2022 – 2026 Dec**
SLTC Research University, Padukka, Sri Lanka
Current GPA: 3.72 / 4.00

Assured Diploma in Information Technology (DiTECH) | **2021**
ESOFT Metro Campus, Colombo 4, Sri Lanka.

Diploma in English (Intermediate Level) | **2019**
Aquinas College of Higher Studies, Borella, Sri Lanka

G.C.E. Advanced Level Examination | **2019**
Dharmapala Vidyalaya, Pannipitiya, Sri Lanka (Physical Science Stream)

PROJECTS

NeuroMathix | AI-Driven Personalized Mathematics Learning System (Ongoing) | **2026**

- Developing an AI-driven personalized learning platform using machine learning, forgetting curve models, and Explainable AI (XAI) for adaptive learning and performance tracking.
- **Technologies:** Python, TensorFlow, FastAPI, Flutter, Firebase, Google Cloud Platform.

Online Bookstore System | Service-Oriented Architecture (SOA) | **2026**

- Implemented an SOA system using SOAP services, REST APIs, RabbitMQ messaging, and BPEL orchestration.
- **Technologies:** Node.js, Express.js, MongoDB, RabbitMQ, Docker, Apache Tomcat, SOAP, REST, BPEL, WS-Security.

Customer Churn Prediction System | End-to-End MLOps Project **| 2026**

- Built and deployed a customer churn prediction system using machine learning and Docker with a CI/CD pipeline.
- **Technologies:** Python, Scikit-learn, Pandas, Docker, AWS, REST API, Power BI, GitHub.

Smart Waste Management System | IoT Smart Bin with Real-Time Dashboard **| 2026**

- Built an ESP32-based smart bin system with real-time monitoring using Firebase and a web dashboard.
- **Technologies:** ESP32, Firebase, Arduino IDE, HTML, Tailwind CSS, JavaScript, Chart.js.

Comprehensive Big Data Analytics Solution | AWS & PySpark Project **| 2025**

- Processed and analyzed large healthcare datasets using PySpark on AWS EMR and stored data in AWS S3.
- Performed data analysis, feature engineering, and visualization for predictive insights.
- **Technologies:** Python, PySpark, AWS S3, AWS EC2, AWS EMR, Jupyter Notebook.

AURA Task Manager | To-do App **| 2025**

- Engineered a full-stack task manager featuring real-time collaboration, notification systems, and automated deployment via Docker and Kubernetes.
- Implemented a CI/CD pipeline, reducing deployment time.

Face Recognition Attendance System | Automated Attendance Solution **| 2025**

- Built an automated attendance system leveraging facial recognition technology with real-time logging and an intuitive web interface.
- Integrated Python, Flask, OpenCV, and scikit-learn for robust system functionality.

FilmFlare | Movie Finder Website **| 2025**

- Designed and developed a responsive movie search platform, incorporating poster display, detailed movie information, and a light/dark theme toggle.
- Leveraged HTML, CSS, JavaScript, and the OMDb API for dynamic content delivery.

GPA Calculator | Mobile Application **| 2025**

- Created a cross-platform mobile application for students to calculate and store GPA with real-time results.
- Developed using Flutter, Dart, and Firebase for efficient data management.

PUBLICATIONS

- Published an article on Explainable AI (XAI) and Educational Technology in Sunday Times – Education Times as Group Leader and Co-author. Link: https://www.sundaytimes.lk/260201/education/the-delete-button-in-your-head-why-your-brain-is-designed-to-forget-630085.html

CERTIFICATIONS

- **OpenAPI Fundamentals** (The Linux Foundation, Issued Aug 2025)
- **Learn C Programming with Examples in One Day** (Udemy ,Issued Jan 2024)
- **Learn HTML and CSS from Beginning to Advanced** (Udemy ,Issued Jan 2024)

LEADERSHIP

Assistant Chief Editor | Media Unit, SLTC Research University **| May 2025 - Present**

- Led junior editors in content planning, editing, and scriptwriting for university media publications.
- Managed the production of newsletters, promotional materials, and project publications, ensuring timely delivery.

REFERENCES

Mr. Chameera De Silva (MBCS, MIEAUS, MIEEE, MACS)
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