Tharindu Gunarathne Computer Science Undergraduate

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₽ Profile

Passionate about AI, DevOps, Cloud Computing, and full-stack development, with hands-on experience delivering scalable solutions. Freelance experience working with local clients to build high-quality software. FOSS volunteer, recognized in hackathons for innovation. Enthusiastic about digital audio programming, continuously exploring new ways to blend technology. Committed to **continuous learning**, **open-source contributions**, and driving impactful tech solutions.

Professional Experience

Full stack Developer Apr 2024 - present

FreeLancer

Sathsara - Pharmacy Wholesale Distribution App - Live Site €

Full Stack Developer

Developed an interactive application for wholesale **pharmacy distributors** to efficiently

process, track, and manage pharmaceutical orders for retail pharmacies

React JS | NextJS | Typescript | Tailwind CSS

Education

Bachelor of Science - BSc(Hons) May 2022 - present

University of Kelaniya Sri Lanka

Third Year Undergraduate - Specialization with Artificial Intelligence - Current GPA: 3.85

Advance Level (G.C.E) 2020 Jun 2018 - Jun 2020

Dharmaraia College

Physical Sciences Stream - Z-Score: 1.8497

የያ Skills

Languages C/C++ | Python | JS | C# | SQL | PHP | Kotlin

Database

MySQL | PSQL | MongoDB | Supabase | Firebase

Tools

Git | Docker | Kubernates | nginx | Linux

FastAPI | Django | Flask | Node | Springboot

Frontend

React | Next|S | Redux

Al Framework

Tensorflow | Pytorch | Langchain | Hugginface | Librosa

Cloud Servers

Oracle | AWS | Azure | GCP

Projects

ViewMO - E-Learning platform - Hackathon Project ∂

-) for seamless content management and productivity.
- Key Features: Includes a graph generator, custom chatbot maker, research guide agent, and MCQ generator to enhance the learning experience.
- Cross-Platform Integration: Ensures efficient interaction and usability across both browser extension and web platform

- Constructed a FastAPI-based segmentation backend using a U-Net model with a ResNet-50 encoder with 86% accuracy.
- Deployed on GCP, leveraging Supabase for authentication and storage.

Nov 2023 – present

 Processed Kvasir-SEG dataset images, enabling efficient polyp detection with endpoints for image upload, segmentation, and retrieval.

LIORA Voice Model @

- Developed a FastAPI-based backend using CNNs and MFCC features, deployed on AWS.
- Designed **RESTful APIs** for emotion prediction from **speech**, integrating **AssemblyAI** for transcription.
- Optimized inference **speed**, enabling **batch processing and real-time analysis** for scalable emotion classification.

Mental Health Chatbot - 2nd Year Group Project ∂

- Deployed a fully functional AI chatbot for **mobile and web platforms**, providing conversational mental health support.
- Integrated NLP models to analyze sentiment and deliver personalized guidance based on user interactions.
- Offers access to 100+ mental health resources, ensuring reliable and scalable support.

QuizCast -Supabase 13th hackathon @

- Designed an interactive quiz platform with a Next.js frontend and FastAPI backend.
- Incorporated Supabase for authentication, real-time updates, and database management.
- Implemented live leaderboards, quiz hosting, and participant interactions for an engaging experience.
- Deployed on **Vercel (frontend) and Azure (backend)** to ensure scalability and seamless performance.

Carnatic Raaga Classification API (Ongoing Project) ₽

- Engineered a machine learning model utilizing **TensorFlow and Librosa** to classify **Carnatic raagas** from audio clips with ~94% accuracy, enabling real-time music genre identification capabilities.
- Integrated a recommendation system to suggest the **top 10 songs** based on the identified raaga.
- Future plans include API development, authentication, and YouTube/Spotify integration for seamless music streaming.

Certificates

- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional *∂*
- CS50's Introduction to Artificial Intelligence with Python ∂
- Microsoft Certified: Azure Administrator Associate (Ongoing)
- Microsoft Certified: Azure Al Fundamentals ∂
- GitHub Foundations Certification (Ongoing)

Awards

IntelliHack 4.0 - University of Colombo School of Computing (UCSC) Team Vertex Team Leader Winners	Jul 2024
IEEEXtreme 18.0 - IEEEXtreme <i>⊘</i> Team Member Global Rank: 255 Country Rank: 13 University Rank: 1	Nov 2024
Genesiz 24 - General Sir John Kotelawala Defence University	Aug 2024
IEEEXtreme 17.0 - IEEEXtreme Team Leader Global Rank: 1522 Country Rank: 122 University Rank: 1	Oct 2023
Junior-Hack 2023 - University of Kelaniya Team BugCrushers Team Leader Top 10 Finale Selected	Jul 2023

A VOLUNTEERING EXPERIENCES

Team BugCrushers | Team Leader | Top 10 Finale Selected

IntelliHack 3.0 - University of Colombo School of Computing (UCSC)

FOSS community at the University of Kelaniya - Vice President	Oct 2023 – Oct 2024
Computer Science Student's Association (UOK) - Member	Sep 2022 – present
UOK ISACA Student Group - Member	Sep 2022 – Sep 2023

May 2023