

AHAMED DHAHLAN

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SUMMARY

Dynamic Engineering student with a strong foundation in Python, JavaScript, Django, and Next.js, and a keen interest in developing scalable and distributed applications. Experienced in full-stack development, APIs, and machine learning. Adept at designing high-performance components and passionate about contributing to innovative solutions in customer engagement. Committed to producing high-quality, maintainable, and secure software.

EDUCATION

University of Ruhuna, Sri Lanka <i>Bachelor of Science in Engineering (Honors) - Electrical and Information</i>	March 2021 – Present <i>Galle, Sri Lanka</i>
Zahira College, Kalmunai <i>GCE Advanced Level and GCE Ordinary Level</i>	January 2017 – August 2019 <i>Kalmunai, Sri Lanka</i>

PROJECTS

EduZone: An Innovative E-learning Platform - Group Project	July 2024
<ul style="list-style-type: none">Developed a comprehensive e-learning platform that includes courses and projects, utilizing React for frontend development and django for the backend.Integrated Python and Django to handle server-side logic and manage database interactions efficiently.Technology Used: React, Node.js, Python, Django, JWT token, Machine Learning	
CodeForgeAI: Code Generation from Webpage Screenshots	May 2024
<ul style="list-style-type: none">Created a tool to generate code from webpage screenshots with real-time previews, enhancing coding efficiency.Technology Used: Python, OpenCV, TensorFlow, Flask/Django, JavaScript, HTML/CSS	
Intrusion Detection System using Machine Learning: Enhancing Network Security	July 2024
<ul style="list-style-type: none">Trained an advanced Intrusion Detection System (IDS) leveraging machine learning techniques to detect and mitigate network intrusions, providing real-time monitoring and alerting capabilities.Utilized both supervised and unsupervised learning approaches to analyze network traffic and identify anomalous behavior, ensuring comprehensive security coverage.Technology Used: Python, scikit-learn, TensorFlow, Flask/Django, pandas, numpy, SQL	
Singlish GPT: Language Model for Sinhala in English Letters	July 2024
<ul style="list-style-type: none">Implemented a GPT model for Singlish text processing and generation using mT5 and various libraries.Technology Used: Python, Hugging Face, transformers, PyTorch, Aksharamukha, Google Gemma	
LipLexa: AI-powered Lip Reading System for Videos	January 2024
<ul style="list-style-type: none">Created a state-of-the-art lip reading application with TensorFlow and OpenCV; increased accessibility for hearing impaired by 70% and achieved 40% faster processing speedsDeveloped an advanced algorithm for accurate speech interpretation from visual cues, with applications in security, assistive technology, and media analysis, resulting in a 50% increase in detection reliability.Technology Used: Python, TensorFlow, OpenCV, Matplotlib	

RealVision+: An Advanced Face and Expression Analysis Application.	September 2023
<ul style="list-style-type: none"> Developed a cutting-edge face recognition app capable of accurately identifying individuals and predicting their gender in real-time. Technology Used: Python, ML, OpenCV, Matplotlib 	
GestureGear: Hand-Gesture Controlled Car Racing Game	January 2024
<ul style="list-style-type: none"> Engineered an advanced real-time hand tracking and gesture recognition system, achieving a 40% increase in user interaction accuracy and elevating overall gameplay experience Technology Used: Python, OpenCV, Mediapipe, Matplotlib 	
GloSign: Empowering Deaf Communication	February 2024
<ul style="list-style-type: none"> Developed a sign language translator achieving 96% accuracy in gesture recognition, facilitating communication for the deaf. Integrated gesture recognition, speech-to-text algorithms, and wearable devices. Technology Used: Python, C++, Arduino, ML 	

SKILLS

Languages: C/C++, Python, JavaScript, SQL
Libraries: Huggingface, Transformers, Pandas, Numpy, Matplotlib, Seaborn, TensorFlow, PyTorch
Web Dev Tools: Node.js, VScode, Git, GitHub
Frameworks: React.js, Django, Next.js, FastAPI, .NET
Databases: MongoDB, Firebase, MySQL, Apache Spark
Development Practices: TDD, BDD, Code Reviews, Unit Testing
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Machine Learning, Database, Artificial Intelligence, Natural Language Processing, Computer Vision
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability, Critical Thinking

CERTIFICATES

<ul style="list-style-type: none"> Certificate in Introduction to Web Development with HTML, CSS, JavaScript Certificate in Introduction to Cloud Computing Certificate in Introduction to Deep Learning & Neural Networks with Keras Certificate in Machine Learning with Python Certificate in Python for Data Analysis: Pandas & NumPy edX Verified Certificate for Data Science: Machine Learning Certificate in SystemVerilog for ASIC/FPGA Design & Simulation

ACHIEVEMENTS

Participant, Commercial Bank Hackathon, Commercial Bank	June 2024
2nd Runners up, Haxtreme 2.0, IEEE Society	November 2023
Top 10%, AWS Deep Racer, AWS	August 2023

REFERENCES

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