Yoga Vignesh V

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SUMMARY

Self-motivated, creative thinker with a talent for solving challenging problems and a strong interest in computer science. Proven experience in developing and deploying AI models, IoT-based systems, and scalable cloud solutions. Passionate about using advanced technology to deliver innovative solutions that drive success. Seeking an opportunity to leverage my technical skills, creativity, and collaborative mindset to achieve organizational goals while expanding my knowledge and talents.

EDUCATION

SRM Institute of Science and Technology — Tiruchirappalli, IN
B.Tech in CSE - Artificial Intelligence and Machine Learning — *Jun. 2021 – Present*

Chellammal Matriculation Higher Secondary School — Tiruchirappalli, IN
12th, TNBHSE — *Mar. 2020 – May 2021*

Alpha Wisdom Vidyashram Senior Secondary School — Tiruchirappalli, IN
10th, CBSE — *Mar. 2009 – May 2019*

EXPERIENCE

IBM — Jul. 2023 – Dec. 2023
AI/Cloud Computing Intern (Part-time, Online)
- Assisted in developing and deploying AI models on cloud platforms.
- Gained experience in cloud services and AI integration.

NIT Trichy — Mar. 2023 – Jul. 2023
Research Fellow (Full-time)
- Conducted research on Intelligent Edge Vision Systems for insect detection in agricultural farms.
- Utilized Jetson Nano with TensorRT and YOLOv7 for project implementation.

SKILLS SUMMARY

Languages: Python, C/C++, SQL, HTML, CSS, JavaScript, Java, Kotlin, Bash
Frameworks: Scikit-learn, NLTK, SpaCy, TensorFlow, PyTorch
Developer Tools: Docker, Google Cloud Platform, IBM Cloud, Google Colab, VS Code, Jupyter Notebook, Figma, Jetson Nano, TensorRT,AWS Cloud, Unity, Cisco packet tracer, Blender
Additional Skills: Website Development, Android Development, MLOps

PROJECTS

Third Eye — Jul. 2024 – Present
Python, Deep Learning, NLP, SRM IST Trichy
- Developing a device for visually impaired individuals using deep learning and NLP to assist with navigation and object recognition.
- GitHub Link

Sentiment Analysis of Restaurant Reviews — Oct. 2023 – Dec. 2023
IBM, Machine Learning
- Conducted sentiment analysis on restaurant reviews using machine learning techniques.
- GitHub Link

IEVS for Insect Detection in Agri Farms — Jun. 2023 – Aug. 2023
NVIDIA Lib:(cuDNN, TensorRT, CNN, OpenCV, YOLOv7, CUDA). Jeston Nano
- Implemented an intelligent edge vision system for detecting insects in agricultural farms using advanced AI techniques.

- Integrated Jetson Nano with TensorRT and YOLOv7 for real-time insect detection.
- GitHub Link

Weather Monitoring System
Feb. 2023 – Apr. 2023

IoT, LoraWAN, Arduino, LSTM
- Developed an IoT-based weather monitoring system to track environmental conditions in real-time.
- GitHub Link

Face Recognition at Edge Device System
Feb. 2023 – May. 2023

Edge Computing, Computer Vision, Python
- Developed a face recognition system using edge devices for fast, real-time identification and authentication.
- Integrated computer vision algorithms for efficient image processing and recognition at the NVIDIA jetson Nano.
- GitHub Link

IoT-Based Attendance System for Road-Side Units
Sep. 2022 – Nov. 2022

Arduino IDE, C++, Raspberry Pi, Software Project Management, Cloud Computing, Python
- Designed and implemented an IoT-based attendance system for roadside construction units.
- Utilized Raspberry Pi and cloud services for real-time data processing and management.
- GitHub Link

Automatic Solar PV Cooling Module
Sep. 2021 – Oct. 2021

Android Development, Arduino IDE, C++, IoT, Solar PV
- Created an IoT-based solution for automatic cooling of solar PV panels to enhance efficiency.
- Programmed the module using Arduino IDE and C++.
- GitHub Link

Student's Bank Management App
Aug. 2021 – Oct. 2021

Android Development, Cloud Applications, Web Design, Algorithm Design, Adobe Photoshop
- Developed an Android application for managing student bank accounts with integrated cloud services.
- Designed user interface and implemented core banking features.
- GitHub Link

Awards and Achievements

IndiaAI Research Fellowship — Oct. 2024

*Awarded by MeitY, Government of India; received a grant of **Rs. 1 Lakh** for Agricultural Drone Design.*

1st Prize in How to Solve SDG 2024 Hackathon — Mar. 2024

*Won first prize **with cash prize of Rs.40000** hackathon at IIT Madras with Accenture.*

2nd Place at Digithon 1.0 Hackathon at SRM KTR — Feb. 2024

*Achieved second place at Digithon 1.0 Hackathon with **cash prize of Rs.8000**.*

1st Place at SRM SDG 2023 — Jan. 2024

*Won first place **with cash prize of Rs.25000** in the SRM SDG 2023 competition.*

3rd Place at SRM CCC Codthon — Jan. 2023

*Won third place in SRM CCC Codthon **with cash prize of Rs.4000**.*

2nd Place at SRM Project Expo 2022 — Nov. 2022

*Awarded second place with **cash prize of Rs.10000** at the SRM Project Expo.*

4th Place in Android Development Grand Final Round — Feb. 2019

Secured fourth place in the grand final round of an Android development competition.

2nd Place in Android Development Zonal Level — Mar. 2018

Achieved second place in a zonal-level competition focused on Android development.

CERTIFICATIONS COURSES

Google: Introduction to Scratch and MIT App Inventor, Introduction to Generative AI

Udemy: Reverse Engineering .NET For Beginners (Visual Basic), Linux Terminal for Beginners, Python for Beginners - Learn All the Basics of Python, C++ Programming Step By Step From Beginner To Ultimate Level

Hackerrank: Python Basics

LinkedIn Learning: Machine Learning with Python: Foundations, Introduction to Web Design and Development

IBM: Journey to the Cloud, Getting Started with Enterprise-grade AI

Coursera: Fundamentals of Network Communication, Natural Language Processing with Classification and Vector Spaces

NVIDIA: Getting Started with AI on Jetson Nano, Getting Started with Threat Intelligence and Hunting

NPTEL: Introduction to Internet of Things

Microsoft: PL-900: Microsoft Power Platform Fundamentals, Microsoft Azure Fundamentals: Describe Azure Management and Governance

MongoDB: Introduction to MongoDB

ServiceNow: Micro-Certification - Welcome to ServiceNow

Cisco: Networking Basics

AWS: AWS Flash - AWS AI/ML Essentials (GCR Only), Getting Started with Cloud Acquisition