Dumpala Sai Avinash

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Software Engineer

GitHub: dumpalasaiavinash
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A motivated individual with in-depth knowledge of languages and development tools and has an ability to adapt to new technologies, seeking a position in a growth-oriented company where I can use my skills to the advantage of the company while having the scope to develop my own skills.

SKILLS

Languages	Python, C, Visual C#,
Tools & Frameworks	Flask, Streamlit, Django, HTML, CSS, JS,Open-AI, LLM's, Open-CV, numpy, Databricks, Snowflake, Sklearn, Aws Bedrock, AWS EC2, AWS Lambda, AWS Quicksight, AWS Glue, AWS Athena, AWS S3, AWS IoT, Azure Database Services, Azure Analytics, Azure Compute, Azure Speech Services, Ignition, Git, Docker, ML Ops, WPF
Databases	MongoDB, MySQL, DynamoDB, Influx DB
Others	AWS, Azure, Cloud Computing, Machine Learning, Data Analytics, Business Intelligence Tools, 3D Avatar service integration

TECHNICAL EXPERIENCE

Soultion Architect   **July 2023 — Present**
Tridiagonal Solutions   *Pune, Maharashtra*
Avatar based Chat using LLM's

- Responsible for the developing a software where it takes a user's voice input and converts it into text and answers the queries using a realtime 3D avatar service in which the custom data is in the form of PDF's.
- Implemented Python functions for speech-to-text conversion via Google API and developed a ChatGPT-4-powered chatbot, on custom domain-specific data for targeted query responses using OpenAI's LLM.
- Technologies used include: Python, OpenAI, Google Speech, Azure Speech Services, Soul Machines

Insyte-O (Gen AI based maintenance management)

- Led a team of 5 in developing Insyte-O, an intelligent maintenance management system that leverages generative AI for automating maintenance requests, work orders, and planning in a manufacturing environment.
- Utilized AWS services, including AWS Bedrock, Claude, AWS Neptune, AWS OpenSearch, AWS S3, AWS Cognito, AWS Q, alongside Flask and Python, to build a robust and scalable solution.

Software Engineer   **July 2021 — July 2023**
Youngsoft India Pvt. Ltd. (formerly known as Ritwik Software Technologies Pvt. Ltd.)   *Hyderabad, Telangana*
WPE(Work Posture Assessment)

- Responsible for the development of software that calculates the person's ergonomic score from a video.
- implemented the required Python algorithm to take the person's video and calculate the angles between different joints from a human and assign a score based on the predefined ergonomic values suggested by a physiotherapist.
- Technologies used include: Python, Open CV, Numpy, AWS

MFGIIOT (Manufacturing Intelligent IoT)

- Responsible for design and implementation of an automation solution for a manufacturing plant to collect real time data and process it further to show analytics in BI tool
- Implemented a shopfloor monitor using ignition and took part in development of AWS Quicksight dashboards to show analytics.
- Technologies used include: python, dynamoDB, S3, AWS Quicksight, Ignition, AWS Iot, AWS IoT Sitewise, mqtt.

Software Engineer Intern / MFGIIOT and Databricks POC   **Jan 2021 — June 2021**
Youngsoft India Pvt. Ltd. (formerly known as Ritwik Software Technologies Pvt. Ltd.)   *Hyderabad, Telangana*

- Responsible for implementing a POC on data processing in Databricks and how it can be used for smart manufacturing industry.
- Took a part in design of a smart industry - manufacturing operations in cloud and developed a data processing solution using python for smart industry.

Software Engineer Intern / Heutagogy   **Sep 2019 — April 2020**
Happy Adda Studios Pvt Ltd   *Bengaluru, Karnataka*

- Made an application for children in Govt schools of Andhra Pradesh which makes it easier for students to start self learning.
- This application has been selected for TECH2019, organized by UNESCO in Visakhapatnam from 10th to 12th December 2019

Windows Application Developer Intern / Inventory Management System   **May 2019 — July 2019**
Skillveri Training Solutions Pvt Ltd   *Chennai, Tamil Nadu*

- Responsible for designing and development of an inventory system for Skillveri Technologies to organize their products.
- Used Visual C, MySql and WPF for development.

EDUCATION

Bachelor of Technology in Computer Sciences, *Indian Institute of Information Technology, Sricity* 2021
Class XII, *Sri Chaitanya Junior College, Visakhapatnam* 2017
Class X, *Geethanjali School, Srikakulam* 2015

CERTIFICATIONS

Ignition 8.1 Certified 2022
AWS QuickSight,Athena,S3 2021
Apache Spark 3 - Spark Programming in Python 2021
Google IT Support Certificate 2020
Machine Learning from Stanford Online 2020

ACTIVITIES

Coordinator Cyber Security Workshop in IIIT Sri City 2019
Organizer TechFesia 2k18(Techfest), IIIT Sri City 2018
Secretary Iota club, IIIT Sri City
Photography Represented IIIT Sri City in a photography contest held at Nit Trichy