





Saran Mahadev

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PROFESSIONAL EXPERIENCE

Associate Software Engineer (R&D Algorithms),

02/2023 – * | Bangalore

Zentron Labs Private Limited

Skills: Python, LabView, C++, OpenCV, Scikit-Image, NumPy, Matplotlib, Pandas, SVN, Jenkins, Iterative Closest Point Algorithm(ICP), EZDxF Parser

- Designed and implemented high-precision vision algorithms for flagship industrial products such as iMM and GTron.
- Developed DXF import/export solutions to automate quality inspection and streamline manufacturing workflows.
- Optimized and developed a vision based 2D profiling system using a modified ICP algorithm with high speed and micron level accuracy.
- Led technical more than 30 technical interviews and mentored junior developers.
- Recognized with 7+ best performer awards for delivering innovative and efficient solutions for various problems.

Applied Cloud Computing Trainee,

08/2022 – 01/2023 | Remote

Tata Consultancy Services

Skills: Amazon Web Services, Cloud Computing, Python

- Gained hands-on experience in cloud computing technologies, focusing on architecture, deployment, and management.
- Worked on different projects that enhanced cloud based problem solving and infrastructure optimization skills.
- Collaborated with industry professionals to apply theoretical knowledge in real world cloud environments.

Cloud Computing Specialization Trainee,

07/2022 – 08/2022 | Chennai

Centre for Development of Advanced Computing (C-DAC)

Skills: Python, Docker, AWS, OpenStack, Figma, PowerBI, MySQL

- Gained hands-on experience with OpenStack Cloud, virtualization, and containerization using Docker.
- Developed an understanding of enterprise-level networking components in a professional cloud environment.

EDUCATION

B.E. (Computer Science and Engineering),

2019 – 2023 | Trichy

Government College of Engineering Srirangam

- Attained as Department Representative for four years, fostering student engagement and academic initiatives.
- Led as Chairman for "ZeronZ'24," a National Level Technical Symposium, overseeing the event planning and execution.
- Founded and led GCES Coderz Club where worked with 150+ students and conducted different workshops and seminars on coding and technology.

SKILLS

Programming

Python, Golang, C++, JavaScript

Frameworks

OpenCV, Numpy, Matplotlib, Pandas, Shapely, Scikit-image, PySide, Flask, FastAPI, EzDXF

Tools

Git, SVN, Docker, Kubernetes, Jenkins, VSCode, Figma

Databases

MySQL, MongoDB, SQLite, Redis

PROJECTS

DXF Entity Validation System and Conversion of Image to CAD Files, *Academic Final Year Project*

An Internal Module for a vision product to validate the detected features and also to export the features from the part image and export them as Drawing Exchange File(DXF).

Personal Expense Tracker App, *IBM Skill Network Project*

A personal expense tracking web-app developed using Flask, containerized and deployed on IBM Cloud's Kubernetes using IBM Db2 as the database.

Distributed File Management System "Tarq", *Academic Mini Project*

A web app on Google Cloud for secure file storage using modern technologies to address security and privacy concerns of self-hosted cloud products.

CERTIFICATES

Certified Associate in Python Programming

Ciso Networking Academy

AWS Specialization

Amazon Web Services

Getting Started with Go

University of California

Linux Unhatched Course

Net Development Group

LANGUAGES

English

Tamil

Hindi

DECLARATION

I hereby declare that the details and information given above are complete and true to the best of my knowledge

Saran Mahadev