Gautam VR
Software Development Engineer

A determined and a pro-active professional excited in providing state-of-art technological solutions with a purpose and in process, to learn various technologies while improving my career's learning curve along the growth of the organization.

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SUMMARY

- A dedicated developer in Philips Healthcare, as part of IAP – Image Acquisition Platform, harmonizing workflow for imaging modalities like MR, CT & DXR using C#, WPF in .NET Framework.
- Experienced in AGILE process of software development life cycle using CI/CD pipeline with code metrics, git practices, TDD, BDD and exposure towards system design and architecture.
- TensorFlow certified Machine learning practitioner with strong experience in building Deep learning models through various projects, internships, and publishing IEEE research paper.
- AWS Certified Associate cloud developer with sound hands-on experience in developing cloud projects with AWS & GCP.
- Quick learning skills and adaptability with creative insight to solving problems and high analytical skills.

WORK EXPERIENCE

Philips Healthcare – Bangalore

Software Engineer 2   *Sept 2021 – Present*
- Parallelly working in 3 key programs in MR, also extending to Advanced development of CT workflow in IAP.
- Delivered 8+ features for MR Artes release & Service pack.
- Developed and owned 4 major components using proper design patterns with requirements, tests & documentation.

Software Engineer 1   *June 2019 to Sept 2021*
- Implemented features in .NET using BDD with SpecFlow and UI with WPF while ensuring code quality score>95%
- Addressed customer feedbacks, fixed 26+ product defects.

Intern   *Jan 2019 to June 2019*
- Involved in creating a dev framework to independently launch IAP plugins by mocking BU specific components.

Nokia Solutions and Networks – Chennai

Intern   *May 2018 to June 2018*
- Worked for product engineering with data analytics, ML to identify the defective products with an efficiency of 67%.

Technocrats Robotics – VIT University's Robotics Team

Embedded Software Engineer *April 2016 to July 2018*
- Built autonomous and manual robots coordinating across the interdisciplinary teams, for International ROBOCON.

LEADERSHIP EXPERIENCE

- Core leader in *Young Leaders Club* of Philips - As a mentor in Reverse mentoring programs and managing various activities.
- *Department Head* in Technocrats Robotics team, 2017-18.
- Part of *Student Organizers* of International Conference (ICNETS[2]).
- Overall *Student Coordinator* of 24-Hour IoT Make-athon 2017 conducted by Intel, Microsoft and Aricent.

EDUCATION

Vellore Institute of Technology *– Chennai*
B.Tech - Electronics and Comm. Engineering *Jun'15 - Apr'19*

SKILLS

Python C# WPF C++ SQL JavaScript HTML
TensorFlow PyTorch OpenCV .NET Framework
AWS Stack Google Cloud Problem Solving Leadership

PROJECTS | GitHub |

- **Patient Monitoring System –** Rules based system with C#, .NET using MVVM pattern with WPF (UI), WCF (RESTful APIs) and NUnit.
- **AWS project –** An AWS Cloud-Native web application with REST APIs using node.js, hosted on EC2 in a custom VPC along with RDS, S3, SES, CodeDeploy, Lambda with SNS and CloudFormation.
- **SpaceX Landing Analysis –** An end-to-end Data Science project in IBM Cloud with data collection and ETL using BeautifulSoup, EDA with SQL & plotly, Interactive analysis using Dash & Folium, predictive analysis using ML algorithms with GridSearchCV.
- **SkimLit –** Skims a research paper & provides a summary, An AI model using NLP from analysis of GRU, LSTM, Conv1D models.
- **Document Analyzer –** An AI pipeline with Google Cloud Platform. Used AutoML models to extract the relevant data from documents and stored the extracted data in BigQuery for further analysis.

PUBLICATION | Link |

IEEE Publication citation - S. Kowshik, V. R. Gautam and K. Suganthi, "Assistance For Visually Impaired Using Finger-Tip Text Reader Using Machine Learning," *2019 11th International Conference on Advanced Computing (ICoAC)*, 2019.

ACHIEVEMENTS

- **Winner** of 3 days Hackathon 2021 in Philips Healthcare – *Anomaly detection for smart workflow guidance in MR console* using deep learning with **U-Net model** (*image segmentation*)
- **Awarded multiple quarterly recognitions** for *taking ownership*, *being Team player*, delivering features *first time right* with *quality*.
- **Runner-up** in 24-Hour IoT Make-athon, 2018 with the theme - – Industry management using **IoT, Deep learning and OpenCV**.
- Represented VIT university twice in *International* **ROBOCON.**

CERTIFICATIONS | Digital Badges |

- **AWS Certified Developer – Associate Certification** by AWS.
- **TensorFlow Developer Certification** by TensorFlow.
- **IBM Data Science Professional Certificate (V2)** certified by IBM
- **Specialization in Deep learning** by deeplearning.ai (*+honours*)
- **Applied AI with Deep Learning** from Coursera by IBM