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 improving my career's learning curve along the growth of the organization.

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[Digital Portfolio]

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 Deep learning and Computer Vision from various projects, internships, and publishing IEEE research paper.
- AWS Associate level Certified developer with sound hands-on experience on building several cloud projects using 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
- Parallely 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
- Helped 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 — Apr 2016 to July 2018
- Built autonomous and manual robots coordinating across the interdisciplinary teams, for International ROBOCON.
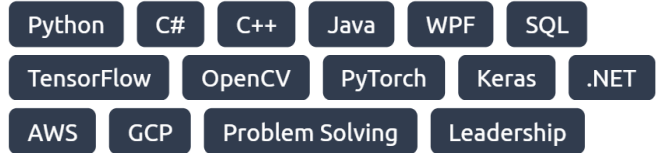
LEADERSHIP EXPERIENCE

- Core leader of *Young Leaders Club* in Philips as a mentor in Reverse mentoring programs and organizing other 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 sponsored by Intel, Microsoft and Aricent.

EDUCATION

Vellore Institute of Technology – Chennai
B.Tech - Electronics and Comm. Engineering June '15 to April '19

SKILLS

Python | C# | C++ | Java | WPF | SQL | TensorFlow | OpenCV | PyTorch | Keras | .NET | AWS | GCP | 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.
- **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.
- **Chatbot for Healthcare Assistance –** Using .NET framework in C# that uses MS SQL database, and a pipeline with gating of code metrics, to build, run the tests and generate a report of the status.
- **Tumour Segmentation –**
- **AWS project –** A 3-tiered Architecture
- **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.
- **AWS project 2 –**

ACHIEVEMENTS

- **Winner** of 3 days Hackathon 2021 in Philips Healthcare – "*Anomaly detection for smart workflow guidance in MRI application*" with **U-Net model** (*for image segmentation*)
- *Awarded for **taking complete ownership,** being a **Team Player** and for developing 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**.
- Successfully represented VIT University in an *international robotics competition*, **ABU ROBOCON** consecutively for 2 years.

PUBLICATION

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.

CERTIFICATIONS | Digital Badges |

- **TensorFlow Developer Certification** by TensorFlow.
- **AWS Certified Developer – Associate Certification** by AWS.
- **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
- Completed **Machine Learning** by NPTEL with *elite certification*.

OTHER INTERESTS

Reading books | Playing football | Watching sports