

# GAUTAM VR

SOFTWARE DEVELOPMENT ENGINEER - 2

✉ gautamvr55@gmail.com

☎ +91 95975 77377

📍 Bangalore, India

🌐 [linkedin.com/in/gautam-vr](https://www.linkedin.com/in/gautam-vr)

[Digital Portfolio :](https://gautamvr.github.io)  
[gautamvr.github.io]

🐙 [github.com/gautamvr](https://github.com/gautamvr)



## SUMMARY

- A pro-active software developer with 3+ years of professional experience, currently working in Philips Healthcare, using C#, WPF in .NET Framework.
- Experienced in AGILE process of software development life cycle using continuous integration and deployment (CI/CD) pipeline with Test Driven Development (TDD), Behaviour Driven Development (BDD), code metrics, git practices and exposure towards system design and architecture.
- AWS Cloud certified Developer [Associate] with strong hands-on experience in developing and deploying cloud-based applications using AWS & GCP.
- TensorFlow certified Machine Learning practitioner with demonstrated knowledge in building various AI models with a research publication in IEEE.
- Quick learning skills and strong leadership qualities through various initiatives – currently as a core member of Young Leader's Club across Philips.

## WORK EXPERIENCE

### Software Engineer-2 | Philips Healthcare – Bangalore

Sept 2021 – Present

- Delivered 8+ features for MR Artes release & Service pack release with maintainable and testable code using appropriate design patterns.
- Working parallelly across 3 key programs in MR Imaging modality, while extending to Advanced Development of CT workflow in IAP team.
- Experienced with taking ownership of features & components by drafting end-to-end documentation of design, tests & requirements.

### Software Engineer-1 | Philips Healthcare – Bangalore

June 2019 – Sept 2021

- Developed & owned 4 major components using object-oriented programming (C#) with threading & memory management in .NET Framework.
- Implemented features while adhering to SOLID principles in C# .NET using BDD (SpecFlow) and ensuring code quality TICS score > 95%.
- Fixed 3 major Change Requests to address critical customer feedbacks with utmost priority & investigated 18+ product defects in R10 release.

### Intern | Philips Healthcare – Bangalore

Jan 2019 – June 2019

- Facilitated in creating a dev framework to independently launch IAP plugins by mocking imaging modality specific components.

### Data Analytics Intern | Nokia Solutions and Networks – Chennai

Apr 2018 – June 2018

- Worked for product engineering with data analytics & Machine learning and reduced the defective modules in production line by 71%.

### Embedded Software Engineer | Technocrats Robotics – VIT University's Official Robotics Team

Apr 2016 – May 2018

- Built autonomous and manual robots coordinating across the interdisciplinary teams, for International Robotics competition, ROBOCON.

## EDUCATION

### VIT University | Vellore Institute of Technology – Chennai

Graduated: May 2019

Bachelor of Technology in Electronics and Communications Engineering

## PUBLICATION | IEEE Paper |

Published: May 2020

**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.

- Text segmentation (**Fully Convolutional Network + NMS**) → Text recognition (**Tesseract OCR**) → Text to Speech Conversion

## KEY PROJECTS | GitHub |

- **Patient Monitoring System** – Rules based system with C#, .NET using MVVM pattern with WPF (UI), WCF (RESTful APIs) and NUnit.
- **Chatbot for Healthcare** – Chatbot created using C# with MS SQL database and WCF, integrated with CI pipeline – quality gates, build and tests
- **AWS Web Application** – A multi-tier web application with JWT authenticated REST API endpoints using node.js, hosted on EC2 in a custom VPC deployed to servers using CodeDeploy with RDS as DB server + S3, SES, Lambda with SNS. The whole stack is created using CloudFormation (IaC).
- **Serverless Music App** – An AWS serverless app to stream music created using AWS CDK in python with API Gateway, Kinesis Streams, S3 & Lambda.
- **Document Analyzer** – An AI pipeline with GCP, using AutoML models to extract data from the documents and store in BigQuery for further analysis.
- **SkimLit** – An AI model which skims a research paper & provides a detailed summary. Used NLP with analysis of RNN (GRU, LSTM) & Conv1D models.
- **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.

## TECHNICAL SKILLS

|                               |  |
|-------------------------------|--|
| ▪ <b>Languages</b>            | C#, Python, C++, SQL, Java, JavaScript                                       |
| ▪ <b>Frameworks/Databases</b> | .NET Framework, WPF, WCF, node.js, TensorFlow, OpenCV, MySQL, MongoDB        |
| ▪ <b>Platforms</b>            | Amazon Web Services Stack (AWS), Google Cloud Platform (GCP), Linux, Windows |

## ACHIEVEMENTS

- **Winner** of 2021 IAP Hackathon, Philips Healthcare – “Smart MRI console” with **Anomaly detection and segmentation** using deep learning.
- **Received multiple quarterly awards** for *taking ownership, being Team player*, delivering features *first time right* with *code quality*.
- **Winner** of 24-Hour IoT Make-athon, 2018 with the theme – Industry management using **IoT, Deep learning and OpenCV**.
- Represented VIT university twice with Technocrats Robotics in *International Robotics Competition, ABU ROBOCON (2017,2018)*.

## 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 (*with honours*)
- **Applied AI with Deep Learning** from Coursera by IBM.

## LEADERSHIP EXPERIENCE

- Core leader in **Young Leaders Club**, Philips – Representing as a mentor in Reverse mentoring sessions and actively managing other initiatives.
- **Department Head** in Technocrats Robotics team, 2017-18.
- Part of **Student Organizers** of International Conference (ICNETS<sup>2</sup>).
- **Overall Student Coordinator** of 24-Hour IoT Make-athon 2017