

GAUTAM VR

SOFTWARE DEVELOPMENT ENGINEER - 2



[Digital Portfolio]

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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 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 by publishing IEEE research paper and building various AI models.
- Quick learning and adaptability qualities with creative problem-solving skills.

WORK EXPERIENCE

Software Engineer-2 | Philips Healthcare – Bangalore

Sept 2021 – Present

- Parallely working in 3 key programs in MR Imaging modality, while extending to Advanced Development of CT workflow in IAP team.
- Delivered 8+ features for MR Artes release & Service pack release with maintainable and testable code using appropriate design patterns.
- Developed and owned 4 major components with drafting end-to-end documentation of design, tests & requirements.

Software Engineer-1 | Philips Healthcare – Bangalore

June 2019 – Sept 2021

- Implemented features while adhering to SOLID principles in C# .NET using BDD (SpecFlow) and ensuring code quality TICS score > 95%.
- Developed 3 major Change Requests to address critical customer feedbacks with utmost priority, and fixed 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

May 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.
- **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.
- **Real-time Data stream system** – Serverless event-driven data streaming solution using AWS services - Kinesis Data Stream, Lambda & DynamoDB.
- **Chatbot for Healthcare** – Chatbot created using C# with MS SQL database and WCF, integrated with CI pipeline – quality gates, build and tests
- **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.
- **SkimLit** – An AI model which skims a research paper & provides a detailed summary. Used NLP with analysis of RNN (GRU, LSTM) & Conv1D models.

TECHNICAL SKILLS

▪ Languages	Python, C#, C++, SQL, Java, JavaScript
▪ Frameworks/Databases	.NET Framework, WPF, WCF, node.js, TensorFlow, PyTorch, OpenCV, MySQL, MongoDB, DynamoDB
▪ Platforms	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 programs and managing other PIC programs.
- **Department Head** in Technocrats Robotics team, 2017-18.
- Part of **Student Organizers** of International Conference (ICNETS²).
- **Overall Student Coordinator** of 24-Hour IoT Make-athon 2017