



## SIVAKUMAR THIYAGARAJAN

Diligent Mechanical Engineering undergraduate with 8+ years of work experience as a Software Developer. Being an aviation geek, exploring how data analytics capabilities combined with Model Based Engineering can help in building a next generation predictive maintenance solution for improving fleet reliability. Focused, goal-oriented and hardworking individual with excellent communication, analytical and interpersonal skills. Seeking to enter into Master of Information and Data Science (MIDS) program at UC Berkeley School of Information to upgrade myself as a leader in the data science field.

Bangalore, India

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### Education

#### Bachelor of Engineering in Mechanical

08/2009 - 04/2013



Kongu Engineering College (affiliated to Anna University, Chennai)  
Erode, Tamil Nadu - 638060, India

CGPA: 9.39/10

### Work Experience

#### Programmer Analyst (L3) | BOEING INDIA PRIVATE LIMITED | Bangalore, India 05/2019 - present

- Worked on establishing Model Based Engineering solution for various tools both built in-house and Commercial off-the-shelf (COTS) used in internal loads and stress analysis space across Boeing enterprise using 3DExperience SIMULIA process composer module.
- Involved in building analytics solution for product lifecycle data in 3DExperience platform.
- Created an Artificial Intelligence and Machine Learning solution for Boeing Global Services (BGS) for predicting the failure of a component within aircraft systems when a maintenance message or flight deck warning triggered.

#### Software Engineer | TECH MAHINDRA LIMITED | Bangalore, India 06/2016 - 05/2019

- Worked on setting up Product Lifecycle Management solution from scratch in 3DExperience for *Broadcom Inc.* for their semiconductor products and migrated data from their legacy systems to the 3DExperience platform. Handled tera bytes of data efficiently during data migration.
- Involved in enhancing the product lifecycle management solution in 3DExperience for *GE Healthcare* division and established 'Configuration Management' solution for their products.
- Built a new 3DExperience infrastructure for *Rivian Automotive* to enable traceability around their products lifecycle data.

#### Project Engineer | WIPRO TECHNOLOGIES | Bangalore, India 12/2013 - 06/2016

- As a fresh engineering graduate, gone through extensive class room training on JAVA, SQL & UNIX basics and then took up client projects.
- Implemented a new Change Management and Unique Device Identification (UDI) process for *Philips Healthcare*. Also, I was responsible for their product lifecycle management tool's enhancement requirements gathering/analysis, design, development, build and deployment.

### Skills

Model Based Engineering

Product Lifecycle Management

Digital Twin & Digital Thread

AI & ML

Java

Python

SQL

Javascript

HTML

CSS

TCL

GIT

Tortoise CVS

Apache Tomcat

Windows Server

Linux Server

SQL Client

pyCharm

Jupyter Notebook

### Trainings & Certifications

- Completed "Architecture and Systems Engineering: Models and Methods to Manage Complex Systems" certificate program from Massachusetts Institute of Technology (6 months online program).
- Dassault Systemes certified Product Lifecycle Management Analytics solution developer.
- SAFe 4.0 certified agile developer.
- Trained on Artificial Intelligence and Machine Learning at Boeing.

### Type of VISA holding:

B1 (US) – valid till March, 2027

### Achievements & Recognitions:

- Presented the technical papers on Model Based Engineering at ‘Boeing Technical Excellence Conference’ (BTEC) 2021, ‘Global Product Data Interoperability Summit’ (GPDIS) 2021 and ‘Boeing India Composites’ tech talk.
- Won Boeing India hackathon Swayam 2021 for the Model Based Engineering idea ‘Design - Stress reconciliation’.
- Co-led setting up PLM/MOM lab at Boeing India, which enables large groups of employees to upskill on the bedrock systems, ideate, create prototype solution and collaborate on cross-bedrocks integrations.
- Received cash award for successful production release and reward points for the good work done at Boeing.
- Received “**Innovator Award**” for excellent contribution in the Philips project (March, 2016- Wipro).
- Received “**Standing Ovation award**” for excellent contribution in initial infra setup in Broadcom Avago Technologies (July, 2016 Tech Mahindra).
- Received “**Pat on the back**” award for putting best efforts in making successful go-live for the project Broadcom Avago Technologies (December 2016 & March 2017, Tech Mahindra).

### Personal Info:

- Languages known: English, Tamil
- Permanent Address: 2-21/2-197, Kallipalayam Gounder Street, Katheri, Sankari T.K, Salem DT-638183, Tamil Nadu, India
- Present Address: A3-413, SLS Splendor, RMZ Eco World Rd, Devarabisanahalli, Bellandur, Bengaluru, Karnataka 560103, India

Place: Bangalore, India

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