



VAMSHI KRISHNA MADHAVAN

SOFTWARE ENGINEER

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Objective

A proactive and fast-learning individual seeking an opportunity to work as a dynamic Software Engineer utilising my analytical and methodical skills and relevant expertise to help the company achieve business goals while adhering to its vision, mission and values.

Education

UNIVERSITY OF HOUSTON

MASTER OF SCIENCE, DATA SCIENCE

JANUARY 2024 – PRESENT

MALLA REDDY ENGINEERING COLLEGE

BACHELOR OF TECHNOLOGY, COMPUTER SCIENCE: **9.36/10**

JUNE 2017 – JULY 2021

NARAYANA JUNIOR COLLEGE

HIGHER SECONDARY SCHOOL: **97 %**

AUGUST 2015 – MAY 2017

SRI GURUDATTA HIGH SCHOOL

SECONDARY SCHOOL: **9.5/10**

MAY 2015

Skills

Languages: C, Java, Python, SQL, Basics of JSP and PHP

Frameworks & Technologies: Restful Web Services, Spring Boot, Spring Batch, Spring JPA, Spring JDBC, Apache Airflow, Apache Spark, Apache Kafka, Basics of Flask.

Front End Technologies: HTML, CSS, JavaScript

Amazon Web Services : S3, EC2, ECS, EBS, EFS, EMR, Lambda, DynamoDB, RDS, SQS, CodeDeploy, CloudWatch

Caching Services: Redis, Ehcache

Databases: MySQL, PostgreSQL

Source Control Systems: Git, Bitbucket, JIRA, Jenkins

Certifications & Achievements

- Earned Specialisation Certificate on Completion of “Architecting with Google Computer Engine” by Google Cloud.
- Semi-Finalist at TechGig Code Gladiators'2020 competition among 2.5 lakhs participants.
- Certified by HackerRank and Udemy in Java, Python and Apache Airflow Skills.
- Certified in QEEE program conducted by IIT-Madras in C and Data Structures.
- Participated in Virtual Experience Program conducted by JP Morgan and Goldman Sachs.
- Contribution towards open-source projects through HacktoberFest 2019 and 2022.
- Earned Experian Spot Award for better collaboration with stakeholders of the product.

Professional Experience

SOFTWARE ENGINEER

APR 2021 – JAN 2024

EXPERIAN

Key Responsibilities :

- Contributed towards the core project (Verification Batch), which provides Verification Reports as a service to many major clients such as Bank of America, American Express etc processing large population consumer data. Worked on the Development of Batch MicroService Based Application using Spring Boot, and Spring Batch with Integration of different AWS services like S3, EC2, and ECS. Played a critical role in ramping up application TPS (Transactions per second) by 700% within span of 3 weeks.
- Contributed, led the project, and played a significant part in the 12-week migration of a Batch Based MicroService application to Bigdata, enhanced its performance by tenfold using Pyspark.
- Contributed towards the core project (CensusHub), which is a secure data warehouse of all employers with income and employment basic information across different data providers, Primary responsibility is to ingest millions of records everyday and quick turn-around time to search employer data based on SSN, Worked on Development of Big Data Application using Java, Airflow, Redis & different AWS services like S3, EC2, EMR.

SOFTWARE ENGINEER INTERN

JAN 2021 – MAR 2021

COGNITREE

Key Responsibilities: Acquired in-depth familiarity with SDLC with High-level Design through practical problems by working with different frameworks, libraries and APIs.

PROJECT INTERN

JUN 2019 – JULY 2019

Electronics Corporation of India Limited

Key Responsibilities: Built a Real-Time CRUD Application for Hospital Management using MVC Architecture through JSP.

Projects

- **Find Me:** Built a Real-Time Accurate Location Finder and Sharing tool.
- **Roma Mart:** A Freelance Project accomplished to Build a Real-Time Retail Store Management System.
- **Time Series Mining Approach for Agriculture Area Detection:** The proposed framework solution uses an AL (Active Learning) approach for time series classification to monitor specific crops in different areas and consists of selecting seasonal time series information using Python.
- **Vintage Knowledge:** Built an Informative Educational Website to Learn 'C' programming.
- **Text Summarisation:** Built a FLASK Application which generates summarised content for the text uploaded.
- **SforSecure:** Built an Application which validates, predicts password strength suggests robust passwords.
- **Turbo Drive:** Built a Drive type application connected to Cloud with CRUD operations.
- **Song Recommender:** Sentiment Analysis through NLP using VADER Model.

Personal Information

Hobbies: Technophile, Blogging, Photophile, Melophile, Playing Carrom, Cricket and Badminton

Languages Known: English, Kannada, Hindi, Telugu, Tamil