

Savinay Kariyappa

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SUMMARY

Master's Student in Computer Science interested in pursuing a career in Software Engineering.

EDUCATION

RICE UNIVERSITY

MS IN COMPUTER SCIENCE

December 2022 (Exp) | Houston, TX

GPA: 3.72 / 4.0

THE NATIONAL INSTITUTE OF ENGINEERING

BS IN INFORMATION SCIENCE

Jul 2019 | Mysore, India

GPA: 3.6 / 4.0

LINKS

Github:// [savinaykariyappa](#)

LinkedIn:// [savinay-kariyappa](#)

COURSEWORK

GRADUATE

Intro to Artificial Intelligence

Tools and Models for Data Science

Grad. Design and Analysis of Algorithms

Intro. to Information Retrieval

Intro. to Deep Learning

Intro. to Machine Learning

UNDERGRADUATE

Big Data Analytics

Data Structures

Object-Oriented Programming

Database Management Systems

Java Programming

SKILLS

Programming Languages:

• Python • C • C++

• Java • Perl • SQL

Web Technologies:

• HTML • CSS • Django

Containers:

• Docker • Kubernetes

Cloud Technologies:

• AWS • AZURE

Version Control:

• Git

Operating System:

• Windows • Linux

Relational Databases

• Vertica • MySQL

WORK EXPERIENCE

RICE UNIVERSITY-CS DEPARTMENT | TEACHING ASSISTANT

Fall 2022

- Teaching Assistant for *Graduate Tools and Models: Data Science*

RISC-V MICROPROCESSOR LAB | INTERN

Summer 2022

- Implemented a *TinyML wake word application* that runs on the *Arduino-Nano BL3* sense board.
- Benchmarked metrics such as inference time, code size and static size.

MICRO FOCUS | SOFTWARE ENGINEER

Aug 2019 - Jul 2021 | Bengaluru, India

- Developed data aggregation functionality in Python for data analytics.
- Implemented distributed open tracing using *Jaeger* and *Prometheus* to measure performance of various microservices.
- Facilitated deployment of data analytics platform (COSO) onto different cloud platforms (Azure and AWS).
- Maintained various microservices in COSO using *Docker* and *Kubernetes*.
- Developed Rest APIs from scratch in *Java* using *Spring Boot* framework to support custom views for the datasets in the *Vertica* database.
- Worked with test driven development in *Java* using *JUnit* framework.

MYSURU CONSULTING GROUP | SOFTWARE ENGINEERING INTERN

Fall 2018 | Mysuru, India

- Implemented REST based endpoints to create *Bayesian networks* to model correlations in data using *Django* and *Python*.

PROJECTS

IMAGE-BASED ENGLISH TO SPANISH TRANSLATOR

- Built an image captioning system for English to Spanish translation.
- Used *EasyOCR* to extract English text from images.
- Used a transformer model (*mBART*) to translate text from English to Spanish.

REDDIT MOVIE REVIEW SENTIMENT ANALYSIS

- Scraped and indexed movie review data from Reddit using *Apache SOLR*.
- Extracted movie review sentiment using *VADER*.
- Designed a website to query and display the movie sentiment analysis data using *Python*, *Django*, *HTML*, and *CSS*.

DRONE FLIGHT PATH ANALYTICS

- Implemented a system to automatically navigate a drone through obstacles for disaster management missions using the *Gazebo* simulation software.
- Implemented *Dijkstra's algorithm* in C++ for path planning.

PERSONAL IDENTITY MANAGEMENT

- Implemented a "single window" website for easy storage and access of relevant personal information using *AngularJS* and *PHP*.

CAR DEALERSHIP MANAGEMENT SYSTEM

- Implemented a database system to track profits and model growth for a car dealership using the *MySQL* database.