




# Sidharth Sivaprasad

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## EDUCATION

- **Arizona State University** Tempe, Arizona  
*Master of Science - Computer Software Engineering; GPA: 4.03* *January 2022 - December 2023*
- **Government Engineering College, Thrissur** Kerala, India  
*Bachelor of Technology Hons, - Computer Science and Engineering; GPA: 3.41* *April 2016 - July 2020*

## SKILLS SUMMARY

- **Languages:** Python, C++, C, JavaScript, Java, SQL
- **Frameworks:** ReactJS, ExpressJS, Bootstrap, Django, Spring MVC
- **Tools:** GIT, Android Studio, Unity, Taiga, JIRA, Protege, Eclipse
- **Platforms:** Linux, Windows, AWS, Azure, IBM Cloud
- **Soft Skills:** Leadership, Event Management, Public Speaking, Time Management

## EXPERIENCE

- **Tata Consultancy Services** Jan 2021 - Dec 2021  
*Data Engineer (Full-time)*
  - Led a team of 4 people responsible for data engineering for Amgen, where I leveraged a range of tools including Databricks, Oracle, AWS S3, and Redshift databases to pipeline sensitive medical data
  - Working in an agile environment, I ensured 99.97% availability of data processing servers while creating and maintaining large-scale data for offshore clients. Through this experience, I developed an understanding of the importance of data security and quality control in serving the needs of clients and gained valuable skills in project management, team collaboration, and problem-solving.
- **Cloudsys Analytics** Oct 2020 - Dec 2020  
*Trainee Software Engineer - Intern*
  - Worked in a team that led the development and deployment of proprietary technology Kloudpad FR - Facial Recognition System for employees and loyalty customers for a pan-India retail chain.
  - By implementing the *CloudVision API*, the data collected through facial recognition was analyzed in real-time using Tableau. This allows for informed action to be taken, such as personalized marketing or customer service interactions, which can lead to an improved customer experience.
- **ZoftSolutions Pvt. Ltd.** July 2018  
*Software Engineering Intern*
  - Development of a module in the product School Wizard - aimed at child capability enhancement
  - Designed and implemented an application to generate Barcodes using *Spring MVC* and deployed the Java application using Apache Tomcat server. This experience taught me valuable skills in application development, testing, and deployment in a real-world environment.

## PROJECTS

- **Gun Violence Tracker Using Semantic Data Integration:** Created a Semantic Web based application using React.js that can provide interactive information/statistics on gun violence incidents in the United States. Used Ontology model to structure and organise the semantic data processed from over 30,000 data entries, which was queried using a Fuseki server. Paper published was accepted for the Semantic Data Integration Workshop 2023
- **Rover Simulation using Unity & ROS 2:** Developed the model and control system for an autonomous rover model that detects obstacles and moves autonomously through a maze, mapping the environment. Unity was used to develop the environment and ROS2 to develop the rover
- **Driver Drowsiness and Distraction Detection System:** Designed and implemented a compact and ergonomical Facial Expression and Object Recognition module for automobiles using *Machine Learning* and *Convolution Neural Network* based on Faster RCNN for real time analysis of driver distraction due to mobile phones and to detect drowsiness

## COURSEWORK

- **IBM Data Science Professional Certificate - Coursera:** Specialisation course of 9 modules on *Applied Data Science* containing *Data Science Methodologies*, *Data Analysis and Visualisation using Python* and *Machine Learning*. Capstone Project: Performed a Neighbourhood Analysis on Kochi a suburban city to determine locations suitable for eateries using FourSquare API to collect data and a *Clustering Algorithm* to analyse it
- **HBX CORe :** Completed an intensive 4 month certificate program on the fundamentals of business from *Harvard Business School*. Comprised of three courses - *Business Analytics*, *Economics for Managers*, and *Financial Accounting*.

## VOLUNTARY EXPERIENCE

- Photographer at *ASU Brand Strategy and Management*. Ideate, lead and manage the production and post production workflow for coverage of events in ASU campus
- Executed various roles including *Mentor*, *Academic Support Volunteer*, *Event Coordinator* for *Make A Difference* - An NGO working towards ensuring better outcomes for children in orphanages and shelters across India