

Krishnaa Satyanarayana

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Agile Software Developer with **4.5 years** of professional experience. Specialties lie in cloud solution development with programming expertise and strong interpersonal skills

EDUCATION

San Jose State University, San Jose, CA.

Jan 2021- Dec 2022

M.S. in Computer Software Engineering

GPA: 3.51/4

Coursework: Software Enterprise Systems Engineering, Data Mining, Cloud Technologies, Virtual Technologies

SRM University, Tamil Nadu, India

Aug 2012 – May 2016

B.Tech. in Information Technology

GPA: 3.8/4

Coursework: Operating Systems, Data Structures and Algorithms, Database Systems, Object-Oriented Programming

ACHIEVEMENTS AND SKILLSETS

Certified Kubernetes Administrator by Linux foundation

Oct 2020 - Oct 2023

Awarded with Wunderkind at Wipro for exceeding contributions as a fresher

April 2018 - June 2018

Languages: Java, Python, C#, HTML, CSS, JavaScript, React, MySQL, MongoDB

Frameworks: MVC5, WebRTC, Socket.io, Junit, MS-Test, Selenium, Locust, Moq Framework, Pytest

Tools: Splunk, Jira, Git, Jenkins, Travis, TFS, Splunk, Git, CI/CD, Linux, Postman, Apache HTTP Server

Cloud: AWS (IAM, S3, EC2, Lambda, SQS, SNS), Docker, Kubernetes, OpenStack

EXPERIENCE

Responsible for requirement gathering, ideation and implementation.

RIFT.io, Bengaluru, India – **Member of Technical Staff**

Oct 2018 – Dec 2020

- Architected automation framework from Docker to Kubernetes reducing resource utilization by 30%
- Re-designed test framework to bring down system execution duration by 150%
- Added support to edit resource quotas for OpenStack cloud resources making it convenient for users
- Enhanced network service creation utilizing Brownfield and Sol003 resource discovery decreasing efforts by 25%
- Increased revenue generation by 35% after applying orchestration limitations using existing license support
- **Technologies:** Python, PowerShell, Yang, OpenStack, Docker, Kubernetes, Jenkins, Sol003

Wipro Ltd, Bengaluru, India - **Project Engineer**

June 2016 – Oct 2018

- Led and collaborated for an internal project to develop a passport management portal using MVC5 razor engine
- Liaised with clients to exhibit future prospects by integrating HP smart printers with Alexa Devices. Boosted customer base by 25%
- Devised a reliable cloud-based load test solution to monitor performance, identify product issues and fine-tune scaling parameters of AWS resources. Increased overall efficiency by 30%
- Developed a test-driven approach to validate over 1M REST API endpoints using OAuth2 in 10 minutes
- Created a solution using Selenium to identify broken pages for links present in over 2M pages
- **Technologies:** C#, JavaScript, Node.js, WinForms, MVC5, ADO.Net, ASP.Net, AWS, MS-Test, Selenium, Locust, TFS

ACADEMIC/PERSONAL PROJECTS

Starbucks App (Java, JUnit)

Spring'21 | SJSU

- Increased the ability to add more features with minimal impact to framework by using design patterns
- Implemented patterns like observer, command, state, decorator, and composite in Java following a test-driven approach

UML Parser (Java, Yuml, JavaParser)

Spring'21 | SJSU

- Implemented a tool with an ability to parse java files into UML diagrams
- Explored open-source tools such as yuml, antlr, JavaParser to generate UML

Yelp User Review Analysis (Python, Numpy, Scikit)

Spring'21 | SJSU

- Performed data analysis to classify user reviews for over 1M records.
- Ran various regression and classification techniques to understand results better using F1 and RMSE scores

Autonomous Rental Vehicle

Fall'21 | SJSU

- Designed and constructed a web application to book autonomous rental cars with user and admin functionalities
- Enhanced it with the use of Google Maps, collecting metrics and statistics of vehicle
- Deployed on AWS cloud infrastructure exercising all tools and an efficient dashboard to monitor all vehicles

LEADERSHIP

- Network Administrator and Resident Advisor at SJSU International House home to residents from 26+ countries, in charge of network and event planning