Sai Krishna Bhavana

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EDUCATION

MS in CS, California State University Long Beach, CGPA - 3.9/4 **January 2022 - May 2023**

Bachelor's in computer engineering, Hindustan University, CGPA - 3.97/4 **August 2016 - May 2020**

SKILLS

Programming Languages/ Database: Java, Python,Go, C++, SQL, Oracle PL SQL,Typescript,Bootstrap,JSON
Web Technologies: REST, SpringBoot, HTML,CSS,,Javascript,,ReactJS, Django, Microservices, MVC,PHP,UNIX
Debugging & Automation: Selenium, JUnit,CI/CD Selenium Webdriver, Postman, HP Quality Centre, API Testing
Tools: MS SQL Server, Git, JIRA, Selenium, Jupyter, Visual Studio, Eclipse, Postman
Data Science: NumPy, Pandas, Tableau, SciKit, Keras, OpenCV, Tensorflow
Cloud : Amazon web services, Microsoft Azure,GCP, Docker, Kubernetes, Jenkins, Postgres,GitLab,

EXPERIENCE

Python/SQL Developer, Institutional Research & Analytics - California State University, Long Beach **Febrauary 2022 - Present**

- Developed Tableau visualisations and dashboard reports for CSULB student data and handled ad hoc requests based on campus requirements.
- Working on a live project for automation of extracting and combining students financial aid data by building complex stored procedures and native - dynamic sql queries.

Java Developer, Tata Consultancy Services Ltd, Hyderabad, India **Jan 2021 - Feb 2022**

- Wrote Oracle PL SQL queries and Stored Procedure to optimise incoming enormous financial data every month and saved 45 minutes per batch.
- Experience in Microservices development and deployment using Java, React, Spring Boot and Docker.
- Developed and deployed Microservices on AWS for an e-commerce application, improving scalability and reducing downtime.
- Utilised K8s(Kubernetes) for container orchestration and used Docker for cluster container service discovery, and API Gateway for managing and securing Microservices.
- Designed python scripts and reduced the processing time by 2 hours by automating extraction of data, database server connections, cube validation, executing CalC and MAXL scripts and Essbase full build process as a part of the sprint.
- Coordinated with the onsite customer for smoother live production support and solving bugs at the customer end.

Full Stack developer , MyPustak, India **Jan 2020 - Dec 2020**

- Developed a Books order management system using technologies like Java,SpringBoot,Hibernate,Postman.
- Developed a responsive web application component for employee payslip generation with JavaScript, React and MS-SQL.

Automation Test Engineer, Shiash Infotech India **Aug 2019- Dec 2019**

- Implemented and maintained automation scripts using Java, Selenium and JUnit, optimising the delivery time and reducing manual workload from 2 weeks to 3 days maintaining the accuracy rate.
- Lead in designing test plans, identifying historical test loopholes and achieving wider coverage of Test cases.
- Developed a chatbot in Python, Django that provided a thorough solution report for the historical bug data resulting in reduction of 60% manual efforts and an increased team productivity.
- Worked closely with the SCRUM for EPC micro releases and tracked test cases, test scenarios and bug reports using Jenkins later migrating to JIRA.
- Improved functional test coverage and reduced load testing time of REST web services by 20% using POSTMAN automation API test scripts.

Software Developer Intern, Digital Impact Square, Tata Consultancy Services Foundation, India **September 2018- October 2018**

- Contributed to a child welfare project where years of child abuse was mapped using Naive bayes and Logistic regression clustering using Python.

PROJECTS

Diabetic Retinopathy Classification Tool [Python, Keras, Scikit learn, Google Cloud] **June 2018 - May 2019**
Objective: Automated Classification tool for early detection of diabetic retinopathy which is the most common cause of blindness.
Implementation: The model was trained using a Deep Convolutional Neural Network with the implementation and model training performed on Google cloud GPU on 35126 retinal images released publicly by eyePACS on Kaggle website achieving an accuracy of approximately 81%.

Image Caption Prediction using Deep Learning [Python, Keras,CNN,RNN] **June 2017 - May 2018**
Objective: Generating the captions for the images mainly used for impaired peopls
Implementation : Developed a series of specialized subnetworks using artificial neural network model, which would take the input data and extract highly specific features in order to appropriately control the RC with an accuracy of 73%. Implemented Python OpenCV scripts for image and sign detection.
Award : Computer Society of India Project Competition Winner (Year 2019)

Smart Sudoku Solver [Java, OpenCV, Tesseract OCR, Android studio, Greedy Backtracking Algorithm] **June 2016 - May 2017**
Objective: Live detection and processing solution using Tesseract OCR Technology...
Implementation : Developed android application that detects live image of unsolved sudoku puzzle using camera and processes solution using image processing, OCR technology and greedy backtracking algorithm.

CERTIFICATIONS

Oracle Database 12c : Basic SQL, **LinkedIn** **May - 2021**
Modern Application Development, **Indian Institute of technology, Madras** **May - 2017**