

Sai Vamsi Dutt Patibandla

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Psvdutt.github.io

Education

Master of Science in Software Engineering.

Aug 2022 – Present

SAN JOSE STATE UNIVERSITY

San Jose, CA

Relevant Course Work: Software Systems and Engineering, Network Programming and Applications, Cloud Computing

Bachelor of Technology in Computer Science, G.P.A: 8.2/10.0

Jun 2015 – May 2019

V R SIDDHARTHA ENGINEERING COLLEGE.

Vijayawada, India

Skills

Programming Languages

Python, Java, Golang, SQL, HTML, JavaScript, Linux, Power Shell Script.

Databases and frameworks

MSSQL, Docker, Kubernetes, AWS, Postman, Jenkins, Ansible, GIT, Tensor Flow.

Additional skills and interests

Machine Learning, Cloud Computing, Distributed Systems, Agile, Statistics.

Soft Skills

Problem-Solving, Communication, Flexibility, Self-Management.

Experience

DevOps Engineer.

Jul 2019 – Jul 2022

TATA Consultancy Services – SAP.

Hyderabad, India

- Automated build and deployment process with Jenkins, eliminating 60% of manual work and provisioning time by 80% Migrating Client's services onto the cloud using NCR Edge infra.
- Responsible for writing python and shell scripts and ansible playbooks to automate installations, config files for provisioning activities, backups, and other regular tasks.
- Constructed CI/CD Pipelines for developer repositories to allow continuous deployments to internal environments to reduce operational burden on developers.
- Reduced daily provisioning failures by 90% by identifying and remediating recurring issues.
- Creating and updating documentation for daily process regarding assigned applications as well as providing training for support and on-going day-to-day operations.
- Implemented automated reporting regarding the performance of web app and provisioning activities which saved over 7hrs of manual reporting time each week.

Software intern.

May 2018 – Aug 2018

NRSC

Hyderabad, India

- Enhanced satellite image SNR ratio by 50% using Contrast limited adaptive histogram equalization.
- Diminished the edge detection error rate to 0.15 by using a Hybrid edge detector.
- Generated the shapefiles of segmented images for maintaining vector information.

Projects

File Transfer using peer2peer BitTorrent Simulator – Java.

Dec 2018

- Implemented Chocking and UnChocking mechanisms of BitTorrent protocol.
- Automated Peer Initialization and file sharing.

Ecommerce website — Django, Elastic Search, Kibana.

Apr 2018

- Developed a simple Ecommerce website which retrieve images and their respective data of all relevant items based on searched object.

Database System Implementation – C++

Nov 2017

- Implemented a single user Database that supports subset of SQL features like select, aggregate, and join.
- System can handle 1 million records and perform all the operations on that scale.

Photorealistic image synthesis from text descriptions – Python, TensorFlow.

Aug 2018 – May 2019

- Developed an algorithm for encoding 8120 images and corresponding descriptions to vectors for creating the dataset.
- Reduced the training period for 300 epochs by 1 day by training the model on cloud VM instance.

Leadership and Achievements

- Runner-up among 40 teams in Smart City Hackathon on real-time IoT solutions.
- Served as the Program Coordinator for 6 months in an innovation and coding club with 320 CS students.