Sai Vamsi Dutt Patibandla

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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, JavaScript, C, Shell Script, Java, C, SQL, Golang, HTML.
Databases and frameworks	MSSQL, MERN stack, Docker, Kubernetes, AWS, Jenkins, Ansible, GIT, Tensor Flow.
Additional skills and interests	Machine Learning, Cloud Computing, Distributed Systems, Agile, and Statistics.
Soft Skills	Problem-Solving, Communication, Flexibility, and 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%.
- Constructed CI/CD pipelines for developer repositories to allow Continuous deployment on internal environments to cut down operational burden by 20% on developers.
- Reduced daily provisioning failures by 90% by identifying and remediating recurring issues.
- Automated installations, config file updations for provisioning activities, backups, and other regular tasks using python, shell scripts, and ansible playbooks.
- Managed documentation for daily processes regarding assigned applications and provided training for support and ongoing day-to-day operations.
- Accomplished computerized reporting regarding the performance of web app and provisioning activities, saving over 7hrs of manual reporting time each week.

Software intern.   *May 2018 – Aug 2018*
NRSC.   *Hyderabad, India*

- Enhanced satellite image SNR ratio by 50% utilizing contrast-limited adaptive histogram equalization.
- Diminished edge detection error rate to 0.15 by employing a Hybrid edge detector.
- Generated shapefiles of segmented images with 0% loss of data for maintaining vector information.

Projects

Airport Management System – ReactJS, NodeJS, Express, MySQL.   *Dec 2022*

- Created an airport management system where multiple users like airline employees, airport employees, and passengers can log in and perform their activities such as adding, updating, assigning gates, etc. using APIs, deployed it in AWS with load balancing.

Multi-client, Multi-room Chat Application – *Python, Socket Programming.*   *Nov 2022*

- Implemented socket programming and created chat room applications where multiple rooms are created based on the request, clients can log in and chat with their co-participants in a room.

Photorealistic image synthesis from text descriptions – *Python, TensorFlow.*   *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 a cloud VM instance.

File Transfer using peer2peer BitTorrent Simulator – Java.   *Dec 2018*

- Enforced chocking and unchocking mechanisms of BitTorrent protocol and automated peer initialization and file sharing.

E-commerce website – Django, Elastic Search, Kibana.   *Apr 2018*

- Designed a simple E-commerce website to retrieve images and their respective data of relevant items based on searched objects.

Database System Implementation – C++.   *Nov 2017*

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

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.