E SURENDRA BABU

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CAREER OBJECTIVE

A dynamic Electrical & Electronics Engineering graduate skilled in Python, React.js, HTML, CSS, and backend technologies like Django and MySQL. Proficient in cloud and DevOps tools such as Docker, Terraform, Jenkins, Kubernetes, and Ansible, with strong scripting expertise in Python and Bash. Eager to contribute to innovative projects in a collaborative and fast-paced environment.

TECHNICAL SKILLS

- **Programming Languages:** Python
- **Scripting:** Python, Bash
- **Web Technologies:** HTML, CSS, JavaScript
- **Frameworks:** Bootstrap, Django
- **Libraries:** React.js
- **Databases:** SQL, MySQL
- **Version Control:** GitHub
- **Operating Systems:** Linux
- **Cloud/DevOps:** AWS, Docker, Terraform, Jenkins,Kubernetes, Ansible, SonarQube, Grafana, Prometheus, Trivy, Pulumi, DataDog, Nexus, JFrog, GitLab, ArgoCD, Splunk, Maven,

PROJECTS

Project: AWS Three-Tier DevOps Pipeline
Environment: AWS, Terraform, Jenkins, Docker, ArgoCD, Amazon EKS, Amazon RDS, CloudWatch, AWS IAM.
Description: Successfully deployed a three-tier application on AWS, leveraging Terraform for infrastructure provisioning. Developed a CI/CD pipeline with Jenkins to automate the build, test, and deployment processes for Dockerized Node.js applications. Utilized ArgoCD for continuous deployment, ensuring seamless synchronization of Kubernetes manifests with Amazon EKS. Managed backend data with Amazon RDS, and implemented robust monitoring using CloudWatch. Ensured secure access and communication between services using AWS IAM.

Project: Scalable Netflix Application Deployment on AWS with CI/CD Integration

- Environment: AWS, Terraform, Jenkins, Docker, Nexus, Tomcat, Prometheus, Grafana, Slack
- Description: Designed and deployed a Netflix-style application on AWS using Terraform for infrastructure provisioning. Configured a CI/CD pipeline with Jenkins to automate build, test, package, and deployment processes. Integrated Nexus for artifact management, Tomcat for hosting, Prometheus, and Grafana for real-time monitoring, and Slack for enhanced communication.

Internship Project: Interactive Python Learning App

- Environment: HTML, CSS, JavaScript, Bootstrap, Django, MySQL, Python
- Description: Developed an interactive app enabling users to learn and execute Python commands simultaneously, with real-time practice through an integrated Python interpreter.
- Contribution: Designed the user interface and backend logic, significantly enhancing user engagement and learning efficiency.

Project: Underground Fault Detection Using Fiber Transmission Lines

- Description: Built a system utilizing fiber optic cables to detect faults in underground power lines, such as insulation defects, loose connections, and corrosion, while enabling data transmission.
- Contribution: Conducted research, developed the detection algorithm, and implemented the solution, improving fault detection accuracy and reducing costs.

EDUCATION

Bachelor of Technology (Electrical and Electronics Engineering)

JNTUA University, India (2022)
- Graduated from Audisankara College of Engineering & Technologies with a CGPA of 7.60

Diploma

SBTET AP, India (2019)
- Achieved an aggregate of 71.92%

CERTIFICATES & TRAINING

- Python, PL/SQL, Linux - Front Line Media
- Full Stack Development (Python) - LevelUp Technologies
- Python (Basics to Advanced Level) - Think Champ
- AWS-DevOps -NareshIT

PERSONAL SKILLS

- Strong decision-making abilities
- Quick learner with adaptability
- Skilled at working both independently and within teams
- Proven problem-solving and conflict-resolution capabilities

PERSONAL INFORMATION

- Date of Birth: 15/01/2000
- Gender: Male
- Languages Known: English, Telugu

DECLARATION

I hereby declare that the information provided above is accurate and true to the best of my knowledge.

Date:

Place: Hyderabad   (E SURENDRA BABU)