# SURYA KUMAR

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## CAREER OBJECTIVE

To secure a challenging DevOps Engineer role in a dynamic and innovative organization where I can utilize my technical skills and knowledge to contribute to the continuous delivery and improvement of software applications, while expanding my experience in cloud computing and automation.

## TECHNICAL SKILLS

**DevOps Tools Integration:**
- Seamlessly incorporated a variety of **DevOps** tools, including **Jenkins, Docker, Kubernetes, Ansible,** and **Terraform.**
- Demonstrated proficiency in Python and Bash/Shell Scripting to optimize workflows.

**AWS Cloud Infrastructure Contribution:**
- Leveraged **AWS** services **EC2, S3, VPC, IAM** and architectural concepts like Scalability and High Availability for a robust cloud infrastructure.

**Version Control and Collaboration:**
- Applied **Version Control system,** with hands-on **GIT** experience for effective code management and collaboration on **GITHUB**.
- Utilized **Microsoft Teams** to enhance collaboration and communication within the development team.

**CI/CD Pipeline Optimization:**
- Ensured efficient **CI/CD** pipelines using **Jenkins** for automation and release management.
- Integrated **Maven** for **Build Automation** and **Dependency Management**, optimizing various build tasks.

**AWS Architect Expertise:**
- Demonstrated expertise as an **AWS Architect**, showcasing proficiency in **AWS CLI, SDKs**, and services like **ROUTE 53, IAM, Security Groups, Encryption**, and **KMS**.

**Linux Administration and Automation:**
- Managed Linux distributions, server administration, and troubleshooting, utilizing **Ansible** and **Shell Scripting** for automation.

**Containerization and Orchestration:**
- Created and deployed **Docker Containers**, utilizing **Dockerfiles** for building images, managing volumes, and networks.
- Set up and managed **Kubernetes Clusters** using **Minikube**, configuring network policies and resource utilization.

**Infrastructure as Code with Terraform:**
- Designed and implemented **Terraform Scripts** for efficient deployment and management of **AWS** resources, adhering to Infrastructure as Code (**IAC**) principles.

**AWS Services Proficiency:**
- Demonstrated hands-on experience with **AWS EC2**, **ROUTE53**, **S3**, **ELB**, **EBS**, **AMI**, **VPC**, and **Autoscaling.**

**Linux Server Administration Skills:**
- Applied knowledge of **Package Management** through **RPM** and **YUM** on **Red Hat Linux** servers.
- Proficiently managed **User** & **Group Administration**, file systems **Partitioning**, and **Logical Volume Management** (**LVM**).

**Resource Management and Optimization:**
- Effectively managed disk space, processor utilization, and network utilization related to server performance.

## TOOLS | TECHNOLOGIES

- Jenkins
- Docker
- Python
- Ansible
- Terraform
- Kubernetes
- Shell Scripting
- EC2
- S3
- VPC
- IAM
- Git
- GitHub
- Maven
- KMS
- Minikube
- Route53
- Encryption
- AWS CLI
- AWS SDKs
- Security Groups
- ELB
- EBS
- AMI
- VPC
- LVM
- RPM, YUM
- Autoscaling

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## CERTIFICATES

- Certified on **DevOps** from **Besant Technologies.**
- Certified on **AWS Architect** from **Besant Technologies.**
- Certified on **Linux administration** from **Besant Technologies.**
- Internship Program in **Web Development** With Raspberry pi at **COITOR IT TECH**,Coimbatore.

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## PROJECTS

**Automated Web Application Deployment on Tomcat Server using Jenkins.**

- Implemented an **automated deployment** process for a web application on a Tomcat server using Jenkins and the Deploy Plugin.
- Configured Jenkins job to build and package the application as a WAR file and set up post-build action to deploy the WAR file to the Tomcat server.
- Reduced deployment time from **2 hours to 15 minutes**, and implemented a consistent and error-free deployment process.
- Gained expertise in **Jenkins, Tomcat**, Deploy Plugin, and web application deployment process.

**Weapon Detection for smart surveillance system**

- Smart surveillance system employing image recognition technology to detect weapons in captured footage, issuing alerts when weapons are identified alongside individuals.
- Implement real-time object detection using **Cv2** and **numpy** with **PyQt5.uic** for GUI integration.

**Audio Book using python**

- Python-based solution to convert documents in various formats such as PDFs into audio books, enabling text-to-speech functionality for reading aloud.
- Implemented using **PyPDF2** for PDF file handling, **pyttsx3** for text-to-speech conversion, and the **TextBlob library** for natural language processing tasks.

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## ACADEMICS

- Graduated from Dr.N.G.P Arts And Science College in **Bsc-Computer Technology 2023.**
- Completed Higher Secondary from Prema Matric Hr.Sec School in **SSLC** and **HSC 2020**.

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## DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and I take full responsibility for the veracity of the same.

**Place : Bengaluru** **SURYA KUMAR**