

# 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.

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## 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.

## CERTIFICATES

- Trained and certified on **DevOps** from **Besant Technologies**.
  - Trained and certified on **AWS Architect** from **Besant Technologies**.
  - Trained and 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

**Project Title : 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.

**Project Title : 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.

**Project Title : 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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## LANGUAGES KNOWN

- English
  - Tamil
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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**