

# ARUN SASEENDRAN N P

System Administrator & IT Infrastructure Specialist | Software Developer

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## PROFESSIONAL SUMMARY

System Administrator and Software Developer with hands-on experience managing production IT infrastructure and web platforms at a national research institute serving **400+ users**. Strong command of **Windows Server** and **Linux** administration, **WatchGuard Firebox** network security, **SSL/TLS lifecycle management**, and **AWS** cloud deployments. Designed an automated failover DR/HA solution that reduced recovery time from hours to minutes, and delivered institutional web platforms built on **React** and **Laravel**, covering deployment, hosting, and CERT-In security compliance. Holds an MSc in Computer Science and is available to join immediately.

## WORK EXPERIENCE

**System Administrator** | ICAR – Indian Institute of Spices Research November 2025 – Present  
*Kozhikode, Kerala, India*

- **IT Infrastructure & Support:** Provide Level 1/2 hardware and software support and maintain **Windows Server 2016/2019** and Linux systems for **400+ staff and researchers**.
- **Network & Firewall Administration:** Manage **WatchGuard Firebox** firewall policies, VPN, DHCP/DNS, and policy-based routing; deployed **25 × TP-Link EAP245** access points using Omada SDN to improve campus-wide Wi-Fi coverage.
- **Disaster Recovery & High Availability:** Designed and implemented an automated failover DR/HA infrastructure using **WatchGuard server load balancing**; a standby server takes over on primary failure, reducing recovery time from **hours to minutes**.
- **Website Development & Deployment:** Independently developed a **React-based institutional website for AICRPS**, handling the complete process from application development and production build to server configuration, hosting, DNS, SSL/TLS, and live deployment.
- **Web Server, DNS & SSL Administration:** Configure and maintain institutional websites using **IIS, Apache, and Nginx**; manage **DNS records, domain mapping, SSL/TLS certificates, virtual hosts, and server-side website configuration**. Coordinate **CERT-In VA/PT** and security remediation for institutional websites.

## KEY PROJECTS

**AICRPS Website – Development & Hosting** aicrps.res.in  
*React | Windows Server | IIS | SSL/TLS | DNS*

- Developed the institutional website in **React** and managed the complete lifecycle from application build to live production.
- Built the hosting environment from scratch on **Windows Server with IIS**, including server setup, site configuration, **SSL binding**, and **DNS**.

**ICAR-IISR Website – Deployment & Server Management** spices.res.in  
*Laravel | Web Server Administration | SSL/TLS | DNS | CERT-In*

- Deployed and administer the institute's **Laravel-based website**, covering server configuration, **DNS**, and the complete **SSL/TLS** certificate lifecycle.
- Coordinate **CERT-In vulnerability assessment and penetration testing (VA/PT)** and remediation to meet government security requirements.

**AI Diet Expert – AWS 3-Tier Deployment** LinkedIn | 2026  
*AWS EC2 | RDS | S3 | IAM | VPC*

- Deployed an AI-powered nutrition planner on a full **3-tier AWS architecture**: application on **EC2**, database on **RDS**, storage on **S3**, with access secured through **IAM** and network isolation in a custom **VPC**.

## EDUCATION

**Master of Science (MSc) – Computer Science**, *University of Calicut, Kerala, India* 2023 – 2025

**Bachelor of Science (BSc) – Computer Science**, *Sreenarayana College / University of Calicut* 2020 – 2023

TECHNICAL SKILLS

|                             |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| Systems                     | Windows Server 2016/2019 (Active Directory, GPO, IIS, DHCP/DNS), Linux (Ubuntu, CentOS/RHEL)      |
| Networking & Security       | TCP/IP, VLANs, VPN/IPSec, WatchGuard Firebox (Load Balancing & Failover), DHCP/DNS, CERT-In VA/PT |
| Web & Server Administration | IIS, Apache, Nginx, SSL/TLS (Let's Encrypt, ZeroSSL, Sectigo), LAMP/WAMP                          |
| Software Development        | React, Laravel (Blade), Full-Stack Web Applications, Git/GitHub                                   |
| Cloud & DevOps              | AWS (EC2, S3, RDS, IAM, VPC), Docker, GitHub Actions CI/CD, Bash/Cron                             |
| Databases & Backup          | MySQL (Replication), MongoDB, Rsync, Automated Failover DR Planning                               |

PERSONAL DETAILS

|                  |                  |              |                           |                 |        |
|------------------|------------------|--------------|---------------------------|-----------------|--------|
| Date of Birth:   | 26 February 2002 | Nationality: | Indian                    | Marital Status: | Single |
| Passport Expiry: | 16 April 2035    | Languages:   | English, Malayalam, Hindi |                 |        |