

# Arindam Tanti *Site Reliability Engineer*

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## ABOUT ME


As a passionate advocate for continuous learning and a dedicated Linux enthusiast, I possess a strong engineering mindset and consistently pursue new tools and innovative solutions to optimize tasks. My adept problem-solving skills and emphasis on automation contribute to the continuous enhancement of my skill set, aligning with my commitment to making a positive impact through ongoing knowledge acquisition.

## PROFESSIONAL EXPERIENCE

**VMware, Site Reliability Engineer** 

Jun 2022 – present | Bangalore, India

- Adept at utilizing ITIL and ITSM methodologies for IaaS and PaaS as a Cloud Operations (CloudOps) engineer, resolving real-time issues in hyper-converged infrastructure (HCI) distributed systems, and conducting post-mortems for root cause analysis (RCA).
- Demonstrated success in actively monitoring services to achieve or exceed 98% availability service levels based on SLO, SLI, and SLA metrics. Committed to operational improvement and reducing mean time to resolution (MTTR).
- Experience includes organization-wide noisy alert validation using automated remediation, creating and maintaining knowledge base (KB) articles for alerts, collaborating with service owners, and being well-versed in service on-boarding, maintaining incident KBs, service game days, handling escalations and policy-based incidents, utilizing tools like PagerDuty, and managing internal and external status pages.
- A collaborative team player in a global team of 70+ SRE engineers, skilled in rapid infrastructure automation leveraging open-source and internal libraries to eliminate over 50+ hours of monthly manual effort. Proficient in Virtualization, Linux, DevOps & SRE Culture, Automation, Software Defined Datacenter, Datacenter Virtualization, Scripting, Migration, Distributed Resource Scheduler (DRS), High Availability (HA), Fault Tolerance (FT), Monitoring, and Validation. Experienced with VMware ESXi, vCenter, vSAN, NSX & vCloud Director.

**Capgemini, Senior Software Engineer** 

Mar 2019 – Jun 2022

### **DevOps & System Administrator**

- Managing on-premise infrastructure. Good filesystems and protocols like HTTPS, NFS, SMB, NTP, SAMBA, SSH, TCP, and SSL.
- Strong understanding of OOPs, test-driven SDLC, unit testing, A/B testing, and extending kernel and firmware features.
- Expertise in bare metal servers, KVM. Proficient in containerization with Docker and WSL, as well as programming languages like C++ and Python.
- Successfully managed planned releases and maintenance for five enterprise-level legacy projects. Collaborated with multiple teams, delivered production logs to stakeholders, and proactively addressed issues. Helped to decrease 20% escalations by providing KB-based RCA for each bug.
- Application and DevOps Engineer with a strong technical skill set, extensive experience in server and infrastructure management, and a proven track record of successful project delivery and optimization.
- Linux Administration And Linux Platform SME (NAS Systems), skilled in system recovery, and debugging, for business-critical customers in providing root cause analysis (RCA) for bugs, log analysis, and PoC.
- Good at snapshots, RAID devices, and system backup.
- Experienced in security vulnerability testing, feature modification, and platform certification. Well-versed in protocol deprecation (TLS1.1, TLS1.2) and designing API interfaces. Strong expertise in debugging C++ code and troubleshooting existing code bases.

## PROJECTS

**Runbook Automation, Low Code Automation via Workflow Orchestration**

2023

- Improved alert validation and remediation using an in-house smart SSH API, & open-source APIs to trigger asynchronous jobs for run-book validation. Effectively notified service owners through Email or Slack Notifications based on validation results.
- Utilized an orchestration platform to create low-code workflows for validating and addressing triggered alerts. Significantly reduced man-hours by 30% through efficient alert validation on the infrastructure level.

**Blogs, Tech Blogging Website Hosted Using Opensource Frameworks** 

2022 – 2023

- A Simple Yaml Python micro framework PyDocs to host the website.
- Study Notes, Coding solutions are kept handy reading.
- Used CI/CD on Git Hub and ensured quick deployment changes. The website is hosted using GitHub pages.
- Regular updates on recently learned topics are added on a regular basis.

**Similar Defect, Detect Similar Defects Based On Labelled Data**

2021 – 2022

- Provides Similar defects based on old customer issues & the bug reports from Jira, and Bugzilla. NLP-based unsupervised model to extract data from old bugs and categorize them.
- Created CNN model for text classification using historical 5,000 labeled issues, to predict incoming bugs in the familiar category.
- Achieved a reduction of 150 hours per month in engineering effort, leading to savings of \$3000 bill amount per engineer per month in the project.

## Guruji, A simple chatbot for Internal Team Members [↗](#)

2021

Python-based chatbot based in LLM Library Rasa created as a containerized application to achieve rapid deployment as per new models is trained with regular data ingress.

- The tool is actively supporting 300 tech-escalation engineers for quick updates on FAQs and raised tickets, similar tickets, and KB-articles.
- Conducted workload assessments and devised new operational processes that led to a 40% increase in productivity & 15% decreased turn-around time.

## Automated BVT Regression Report,

2020

Fully automated daily build regression report

Automated the existing IaaS to generate XML-based regression reports from daily nightly regression tests from Jenkins, to find main problems in the current environment easily.

- Ease of measurement of success & failure rate, also immediate focus areas to complete tasks before the deadline.
- This solution helped to deliver the product before the expected time with a 100% success rate. & less time to find the root cause of any issue/ infrastructure changes.

## EDUCATION

### Bachelor of Technology,

2013 – 2017

University Of Engineering And Management, Jaipur [↗](#)

Computer Science Engineering

## SKILLS & TOOLS

### Backend

C, C++, Python, OOPs, Windows/ Linux Servers

### DevOps

Jenkins, Cronjob, Automation, CI/CD, Atlassian stack, Github, GitLab, Git, SVN, Visual Studio, Unix, Code Review, YAML-based Configuration Management, Docker, Pipeline Triaging, Bugzilla, Scrum/Agile, Kanban

### Virtualization

vSphere, ESXi, vSAN, KVM, WSL

### Python

Scripting, Automation, Data Science, Standalone Applications, Design Modules, ChatBot

### Cloud

Deploy & Designing Applications, VMware vCloud Director, Configuration Management, OAuth2, SSL

### Data Analysis

Excel, Python

### Frontend

HTML, CSS, Responsive Design, Basic JavaScript

### Linux

Linux Kernel, CLI Tools, Networking & System Administration, Security Scanning

### Scripting & Automation

Python, Shell, Powershell, vReliaze Automation

### Monitoring

Pager Duty, UpTime, Status Page, LogInsight, BigPanda, VROPs, Graphana

### Communication

Slack, MS Teams, Internal & External StatusPage Alerting

### DataBase

SQL, NoSQL ( MongoDB )

## ACHIEVEMENTS

### Star Employee Award, Capgemini EMS

Awarded as MVP multiple times as expert detective, expert SME.

### Coding Bootcamp & Hackathon

Organized coding and ethical hacking Bootcamp in university

## CERTIFICATES

**VMware Certified Professional - Data Center Virtualization** [↗](#) (This certification validates that a badge earner can implement, manage, and troubleshoot a vSphere infrastructure, using best practices to provide a powerful, flexible, and secure foundation for business agility that can accelerate the transformation to cloud computing.),

**DevOps Culture And MindSet** [↗](#) (Authorized by University of California, Davis, and offered through Coursera),

**Cloud Computing Basics (Cloud 101)** [↗](#) (Authorized by LearnQuest and offered through Coursera),

**Configuration Management At Cloud** [↗](#) (Authorized by Google, and offered through Coursera),

**Certified Python Expert** [↗](#) (By Udemy), **SQL Hands-On** [↗](#) (By HackerRank)