

ARNAB DUTTA

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Education

University of Maryland, College Park

August 2021 – July 2023

Master of Engineering - Cyber Security, CGPA 3.9

Maryland, USA

Savitribai Phule Pune University (formerly University of Pune)

July 2013 – May 2017

Bachelor of Engineering - Computer, 70%

Pune, India

Experience

Flentas Technologies

April 2020 – July 2021

Senior DevOps Engineer

Pune, India

- Automated entire infrastructure and monitoring setup of major MNC companies that included more than 70 EC2 Instances and 10,000 Alerts each, using CloudFormation scripts.
- Developed Complex Production Architectures involving multiple Kubernetes deployments using Ansible and Terraform on Jenkins.
- Trained more than 5 interns each month, and enabled them to complete major production-level projects themselves.

Flentas Technologies

May 2018 – April 2020

Cloud Engineer

Pune, India

- Deployed ELK solutions from scratch for major MNC companies, increasing their problem-solving efficiency by 7X.
- Converted more than 50 monolithic applications into dockerized containers, reducing resource overhead by 80%.
- Automated QA and Security testings on Jenkins, saving 7 days in each deployment cycle while reducing the average CVE assessment score by 90%.
- Deployed replication on multiple databases like PostgreSQL, MySQL, and MongoDB conferring to PCI DSS standards and deployed sharding on MongoDB increasing the performance of the application by 2X.
- Created more than 150 automated pipelines using Jenkins on a Docker-based Infra with production level GIT branching strategies and best practices, saving more than 30 days in each deployment cycle.

Certifications

AWS Certified Security - Specialty (17CMR20K61V11RWL)

AWS DevOps Engineer - Professional (EWQSXVTJ11QQQWS4)

AWS Sysops Administrator - Associate (M8C3MV5CLB41Q65S)

AWS Solutions Architect - Associate (5GH2W3922JF11VKH)

Projects

Automated CIS Hardening | *Ansible, AWS EC2, CIS*

January 2019

- Developed an Ansible Playbook to harden AWS Instances running RHEL and CentOS 7.
- Completed the entire learning and creation process within 2 days to meet a timeline.
- Studied the CIS Level 1 and CIS Level 2 hardening processes.

Automate MongoDB Alarms Creation | *MongoDB, AWS Cloudwatch, BASH*

October 2020

- Created a BASH Script to automate Cloudwatch Alarms creation for unsupported MongoDB Metrics.
- Created a Dashboard to view the above Metrics.

Network Security Script Creation | *NMAP, BASH, Jenkins*

January 2021

- Designed a script with BASH that used NMAP to complete network port testing.
- Integrated the above script as a stage in Jenkins to automate it for 90+ running applications.
- Customised Jenkins to send the output of this test over email and ask for authorization to proceed.

Technical Skills

Languages: BASH, Python, NodeJS, C, JSON, Groovy, HTML, DB Management for SQL, MongoDB & Postgres.

Security & Other Tools: Metasploit, Beef, Splunk, Wireshark, NMAP, Jenkins, Ansible, Terraform, Docker, Kubernetes, New Relic, ELK Stack, Grafana, Prometheus, GIT.

Cloud Services: AWS (EC2, VPC, Autoscaling, IAM, Cloudwatch, Cloudtrail, Route53, ELB, S3, Cloudformation, Code Pipeline, Inspector), Azure (Virtual Machines, Virtual Networks).

Awards / Hobbies

Awards: Employee Of The Year 2019, Flentas. Splunk Certificate for Intro, Visualizations, Fields and Dashboards.

Hobbies: Hiking and Trail Running, Chess, Computer Assembly/Disassembly, Audiophile, Horophile.