

Arnav Kumar

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I like technology, distributed-systems, networks, automations and am always curious to why things work and don't work !

Experience

Zeta Suite

DevOps Engineer 2 | Security Operations | Jan 2022 – Present

- Managed the SIEM portal of Zeta providing real-time security dashboards of Kubernetes clusters(K8s)
- Deployed an Intrusion Detection System (IDS) with an alerting pipeline to increase the security monitoring of production clusters
- Hardened the Zeta K8s with security policies using Open-Policy Agent (OPA) & Kyverno

Zeta Suite

DevOps Engineer 1 | Production Operations | Jul 2020 – Dec 2021

- Orchestrated Zeta's serverless architecture upon Openwhisk on production clusters to provide serverless functions to developers and wrote custom CI pipelines to automate the stack
- Profiled the compute/memory requirements of production clusters saving 1.2M\$ in yearly infrastructure cost
- Solely drove the migration of applications from legacy on-premise infrastructure to cloud on-demand Kubernetes

IIIT Delhi

Undergraduate Researcher | Apr 2018 – Apr 2019

- Developed stateless firewalls accelerated by a graphics processing unit (GPU) for faster packet filtering and encryption
- Wrote custom CUDA libraries for network operations and encryption algorithm (AES-256) giving a 10x speed with encrypted traffic in raw packet processing

Select Projects

Java Library for BitBucket Cloud REST API | 2020

- Developed a Java client library to automate operations on a BitBucket repository

WebRTC Multi Modal Surveillance | 2019

- Developed a WebRTC based surveillance system able to take inputs from multiple devices

Secure Banking System | 2018

- Developed a banking application on Django and secured it from various security vulnerabilities

Education

IIIT Delhi

B.Tech - Computer Science and Engineering

Apr 2016 - Apr 2020

Apeejay School Pitampura, Delhi

12th Standard - C.B.S.E

Apr 2014 - Apr 2016

Achievements

2nd Prize - Hack Junction - Finland

2nd Prize - Hack Junction - Budapest

1st Prize - Byld Hackathon - IIITD

Kudos Award - Zeta Suite

Positions of Responsibility

Teaching Assitant - Foundations to Computer Security -

Prof. Arun Balaji Buduru - IIITD (Aug '19-Nov '19)

Website Manager - TedXIIITD (Oct '18-Mar '19)

Lead Organizer - Design360 (May '17-Nov '17)

Student Council IIITD - Member (Apr '16-Apr'17)

Skills

Tools

Kubernetes	Helm
Jenkins	Linux
AWS	OPA
Kong	Logstash
Nginx	ArgoCD
Prometheus	Grafana
Falco	Openwhisk
Sonarqube	Nexus Artifactory

Languages

Python	Java
C	Go