

Arnav Kumar

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Experience

Zeta Suite

DevOps Engineer 2 | Security Operations | Jan 2022 – Present

- Improved the security observability of **~20K** pods of the Kubernetes cluster by developing the “Security Information & Event Management” portal providing real-time security dashboards
- Detected runtime security threats on **8+** Kubernetes clusters by deploying an Intrusion Detection System with an alerting pipeline
- Hardened the Kubernetes cluster with security policies using Open-Policy Agent & Validating Webhooks

Zeta Suite

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

- Deployed a serverless architecture based on Openwhisk on **6+** production Kubernetes clusters providing serverless functions to **200+** developers across **600** microservices
- Saved **1.2M\$** in yearly infrastructure cost by profiling the compute-memory requirements of **6+** Kubernetes clusters
- Enabled developers to build their code and run **50+** Jenkins pipelines on cloud(AWS EKS) by migrating build tools from legacy infrastructure to Kubernetes

IIIT Delhi

Undergraduate Researcher | Prof. Sambuddho Chakraborty | Apr 2018 – Apr 2019

- Developed stateless firewalls accelerated by a graphics processing unit (GPU) for faster packet filtering and encryption
- Coded custom CUDA libraries to implement network operations and the **AES-256** encryption algorithm achieving a **10x** increase in speed with encrypted traffic

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 using Flask and Javascript

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

Skills

Languages

Python	Java
C	Go

Tools

Kubernetes	Helm
Jenkins	Linux
AWS	Logstash
Prometheus	ArgoCD
Nginx	Openwhisk
Nexus Artifactory	Grafana

Achievements

- Kudos Award** - Zeta Suite '21
- Winner** - Byld Hackathon IIITD '19
- Runner Up** - Hack Junction Finland '18

Positions of Responsibility

Teaching Assitant, IIITD

Aug 2019 - Nov 2019
Graded assignments of **80+** students and assisted Prof. Arun Balaji Buduru in creating quizzes and deadlines for the course Foundations to Computer Security

Website Manager, TedXIIITD

Oct 2018 - Mar 2019
Developed the website and ticketing portal (capable of **2000TPS**) of TedX event of IIITD

Lead Organizer, Design360, IIITD

May 2017 - Nov 2017
Organized a design hackathon of **70+** participants as part of the technical fest of IIITD

Student Council, IIITD

Apr 2016 - Apr 2017
Member of the student council representing the CS batch in admin-student decision makings