

Sarthak Negi

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Professional Experience

Linux Foundation Mentorship Intern

Cloud Native Computing Foundation - KubeEdge

Sept 2023 - Dec 2023

remote

- Deploy KubeEdge v1.14.2 on Kubernetes v1.24.0 cluster and display it on the user interactive platform KillerCoda, **reduces execution time by 40%** and developers can experience these demos online.
- <https://github.com/kubeedge/killer-coda-scenarios/pull/10>
- Project link - (<https://mentorship.lfx.linuxfoundation.org>)
- Technology stack (Kubernetes, KubeEdge, golang)

Google Arcade Facilitator

Google Cloud

July 2023 - Sept 2023

remote

- Gain hands-on experience **building, scaling, and deploying** real-world applications on Google Cloud Platform.
- Build serverless functions on Cloud Run, manage object storage with Storage Buckets, secure your cloud infrastructure with VPC, and **orchestrate containerized** applications using Kubernetes Engine.
- Badges link - (<https://www.cloudskillsboost.google>)
- Technology stack (Google cloud, CI-CD, docker, Kubernetes)

Web Developer Intern

[Oasis Infobyte](#)

Sept 2023 - Oct 2023

remote

- Build a webpage, portfolio, pizza delivery website
- Tech stack -> Html, Css, Javascript, Node.js, MongoDB

Projects

DevSecOps deploy Netflix Clone

[GitHub](#)

- Configured a **CI/CD** pipeline using **Jenkins** and embedded **SonarQube** in the pipeline to analyse code for bugs, vulnerabilities, and maintainability and use **Trivy** to scan **Docker** images for vulnerabilities
- Set up **Prometheus** to collect metrics and **Grafana** for visualisation and dashboard and create **Kubernetes** cluster with node groups for scalability and deploy application using **ArgoCd**
- Technology stack (AWS, Jenkins, Sonarqube, Trivy, Docker, Prometheus, Grafana, Kubernetes, ArgoCD)

Gracigo

[GitHub](#)

- Developed a **web application** to **automate** and **streamline** grocery shop operations. **Grocigo** empowers both customers and administrators with convenient features for efficient shopping and inventory management.
- Create an account, browse products, add items to cart, and place orders with secure payment options. It track past orders and transactions for easy reference
- Technology stack (php, plSQL, javascript, mySQL, html, css)

Automating CICD with devOps

[HashNode](#)

- Configure a **CI/CD** pipeline using **Jenkins** and deploy the application on **Tomcat** hosted on **Docker**.
- Leverage **Ansible** to manage the removal of outdated Docker images, orchestrate the creation of new Docker images, and integrate **GitHub webhooks**, it ensures that any updates or code modifications trigger automatic builds in Jenkins.
- Technology stack (AWS, Jenkins, Docker, Ansible, Tomcat)

Re-Architecting Web App on AWS Cloud [PAAS & SAAS]

[HashNode](#)

- Used **BeanStalk** and **EFS** as frontend and **RDS, Elastic Cache, Amazon MQ, Route 53, CloudFront** as backend services
- Build artefacts are effectively deployed onto Beanstalk, guaranteeing continuous application updates
- **GoDaddy** expertise safeguards the website against potential threats and leverages a global network of edge locations to deliver content rapidly and reliably to users worldwide, optimising performance and user satisfaction.

Certifications and Achievements

- [Aws Cloud Practitioner](#) certification
- Contributed to **12+ open-source organisation** including AWS, CNCF, KDE, Kubernetes, etc

Volunteering

Open Source Developer Community (OSDC)

Aug 2023 - Present

- **One of the fourteen Core-Team Members** of the Open Source Developers Community of IIIT, Noida-62.
- Organised OSDHack'23 hackathons, OSDCTF'23 Capture the Flag competitions, and Wait-WTF ! (Wait-What's the fix) Linux bug fixing competition.
- Gave a talk on "[May i own your phone](#)" where we showed a live demo of hacking someone's smartphone using fatrat.

Technical Skills

- java | python | golang | js | html | css | C/C++ | node.js | express.js | react.js | php | SQL | bootstrap
- Linux | Windows | AWS | Google Cloud | Azure | Git | docker | Kubernetes | Jenkins | Ansible | Terraform | maven

Education

Jaypee Institute of Information Technology

B.tech in Computer Science and Engineering

Noida, India
2022 - 2026