Avik Kundu

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Portfolio | Linkedin | Hackerrank | Github | Blog

EXPERIENCE

RED HAT | Software Engineer 2   Bengaluru, India | July 2022 – Present

- Spearheaded full-stack development of **10 new features in the OpenShift Developer Console across multiple releases** , enhancing customer experience and reducing workflow time by 30%

- Contributed to upstream/midstream projects including **Tekton, Knative, and ArgoCD** , leveraging **TypeScript, React, and Golang** to enhance open-source infrastructure.

- Pioneered research on integrating **AI** into the Developer Console, identifying **3 key opportunities** to optimize developer workflows, potentially saving **50+ developer hours per week**

- Successfully completed internship with the OpenShift Developer Console Team, **delivering 2 major features** ahead of schedule (**Jan 2022 - June 2022**)

HIGHRADIUS TECHNOLOGIES | DevOps Engineer Intern   Hyderabad, India | July 2021 – Dec 2021

- Engineered automation solutions for infrastructure provisioning and management, **reducing manual tasks by 40%** and cutting deployment time from **2 hours to 30 minutes**

- Implemented **Ansible** integration within existing automation workflow, streamlining configuration management processes across **100+ servers**

- Enhanced Web Application Framework with **3 new features** , leveraging Cloud SDKs to improve functionality and **boost system performance by 25%**

THOUCENTRIC LABS | Cloud Engineer Intern   Bengaluru, India | April 2021 – July 2021

- Orchestrated build and deployment pipelines using Azure DevOps, implementing Cron jobs for automated management of 10+ AKS clusters, resulting in **99.9% uptime**

- Developed Infrastructure as Code (IaC) using Terraform, **reducing provisioning time by 30% and ensuring 100% consistency** across environments

- Orchestrated the deployment of applications on Azure Kubernetes Service (AKS) clusters using Ansible and Helm, achieving a consistent installation process across **50+ microservices and enhancing system reliability by 25%**

- Architected a Data Ingestion pipeline with Apache NiFi, automating data transfer from 15+ sources to a centralized sink, **processing over 1TB of data daily with 99.99% accuracy**

EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI   Jan 2024 - Present
Masters | Software Engineering with Product Management Specialization   (Remote Learning)
CGPA: 8.50

KIIT DEEMED UNIVERSITY   July 2018 - June 2022
Bachelors | Computer Engineering   Bhubaneswar, India
CGPA: 9.36

CERTIFICATIONS

CKAD │ AWS Solutions Architect │ Red Hat Certified Specialist in Containers and Kubernetes

SKILLS

PROGRAMMING LANGUAGES	TypeScript, Go, Python, C++, Bash
FRAMEWORKS	ReactJS, NodeJS, Flask, FastAPI, Gin
TOOLS / PROJECTS	Docker, Kubernetes, Terraform, Knative, ArgoCD, Tekton, Ansible
CLOUD PLATFORMS	AWS, Azure, OpenShift, OpenStack

PROJECTS / OPEN-SOURCE

KUBERNETES OPERATOR | GITHUB   Go, Operator-SDK, OpenShift

- Engineered a **Kubernetes operator** during a company hackathon, automating application deployments from Git URLs

- Improved developer workflows on OpenShift, reducing deployment time by **50%**

- Crafted comprehensive **design documents** and **architecture diagrams**, enhancing team communication and project understanding

- Implemented **test-driven development** practices, increasing code reliability and maintainability

COVID-19 PROGNOSIS | GITHUB   Python, Flask, React.JS, MongoDB

- Developed a **Computer-Aided Diagnostic System** predicting COVID-19 infections using chest radiological images

- Designed and implemented a **web application with REST API**, **containerized using Docker**

- Established an automated **CI/CD pipeline** for deploying the COVID prediction model on Kubernetes

- Achieved **95% accuracy** in COVID-19 detection, potentially accelerating diagnosis processes

HONORS & AWARDS

- Received **Best Engaging Presentation Award** at Red Hat's quarterly hackathon for the OpenShift Messenger Bot (2023)

- Recognized as **AWS Community Builder** for significant community contributions (2022)

- Published Conference Research Paper in **IEEE Xplore** on **"Diagnosis of COVID-19 Radiological Images using Mask R-CNN"** (2022)

- Emerged victorious in **CIVO International Hackathon**, surpassing **3,000 participants** (2021)

- **Clinched first place** in TCS Inframinds Season-4 National Hackathon, competing against **64,000 students** (2021)