

# Dhruv Bindra

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## PROFESSIONAL EXPERIENCE

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**Decision Theater - Arizona State University** Tempe, Arizona  
Software Developer Nov 2023 - Current

- Drove and automated CI/CD deployments for seven projects on-premises and on the cloud by leveraging GitHub actions and AWS Kubernetes clusters, saving time needed for deployments by 70%
- Developed an efficient multi-container web application using Docker to handle React front-end, Python backend and Postgres database calls and reduced app failures by 60%

**IBM India Private Limited** Bengaluru, India  
Backend Engineer Jan 2023 - Jul 2023

- Architected Managed Fusion Service leveraging IBM Satellite and Terraform; reducing cost of infrastructure by 65%
- Managed development of Managed Fusion Operator, responsible for configuring Ceph in containerized environment
- Constructed a streamlined Client Operator facilitating connections between multiple storage consumers and a provider cluster, resulting in a 45% reduction in computation load

**Red Hat India Private Limited** Bengaluru, India  
Software Engineer Jul 2022 - Dec 2022

- Built an OpenShift/Kubernetes Operator for Red Hat OpenShift Data Foundation - Managed Service[ODF-MS] using Operator Lifecycle Manager; this eliminated the need for clients to maintain the cloud storage admins
- Enhanced ODF-MS to deploy the specific type of storage cluster as per the client use-case resulting in 35% cost reduction of the hybrid-cloud infrastructure for them

Associate Software Engineer Jul 2021 - Jun 2022

- Deploying 7+ containerized applications per day on Kubernetes/OpenShift to develop the ODF-MS while gaining extensive hands on experience with Docker and Kubernetes
- Created Bash Scripts to automate multi-platform cluster deployment and installation of ODF-MS kubernetes operator on it to reduce the deployment time by 30% and eliminate the human error while deployment
- Configured the Continuous Integration pipeline using Continuous Productization as a Service pipeline and GitHub actions to deliver the ODF-MS service; enabling weekly releases instead of monthly releases

Intern Jan 2021 - Jun 2021

- Built a dashboard for the Site Reliability Engineering team to monitor the storage component in the hybrid cloud called OpenShift Data Foundation - Managed Service in real-time using Go and Prometheus
- Configured PagerDuty for OpenShift Data Foundation - Managed Service to enable the Site Reliability Engineering team to receive alerts if the service went down using Go and Alertmanager

## EDUCATION

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**Ira A. Fulton Schools of Engineering at Arizona State University** Tempe, Arizona  
Master of Science in Computer Science, GPA - 3.78/4.0 May 2025

**PES Institute of Technology** Bengaluru, India  
Bachelors of Engineering in Computer Science and Engineering, GPA - 3.5/4.0 August 2021

## RESEARCH

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**Document management Solution Using Blockchain** Sept 2019 - Jan 2020

- Researched an architecture that can provide an easy to use, secure and decentralized document handling system using blockchain and asymmetric cryptography to enhance the identity card management system in many countries
- Presented and won the **Best Paper** award at Dubai WASET: 22nd International Conf. on Eng. and Tech Innovation

## SKILLS

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**Programming Languages:** Go, C++, Python, HTML, CSS, JavaScript

**Tools & Technologies:** Docker, Kubernetes, OpenShift, Operator Lifecycle Manager, Prometheus, OpenShift Data Foundation, GitHub Actions, Ceph

**Cloud Platforms:** AWS: Lambda, EC2, ECS, ECR, VPC; GCP: Compute Engine, App Engine; Azure: AKS, MLOps

## LEADERSHIP

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**ACM Student Chapter, PESU – Vice-Chair** Aug 2019 - Aug 2020

- Co-Founded ACM PESU Student Chapter and organised technical events to empower students

**Techwarts community, PESU – Co-founder** Oct 2018 - Aug 2021

- Lead a team of 10 to organise 70+ workshops on Competitive coding, Artificial Intelligence & Android App Development
- Co-head of inGenius 2020 Hackathon; organized Hackathon for 400+ participants