Dhruv Bindra

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PROFESSIONAL EXPERIENCE

Decision Theater - Arizona State University — Tempe, Arizona
Software Developer — Nov 2023 - Current
- Configured 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 Flask backend, and PostgreSQL database calls and reduced app failures by 30%

Comono AS — Oslo, Norway
Software Engineer - Part-time — May 2024 - Current
- Architected scalable and reliable backend API systems that support the company's applications and services using Go and Gin, resulting in a 20% increase in system scalability and a 30% reduction in maintenance costs
- Designed and deployed many applications utilizing almost all of the AWS stack (Including EC2, Route53, S3, RDS, SNS, SQS, IAM) focusing on high availability, fault tolerance, and auto-scaling

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 45%
- Architected a Kubernetes Operator responsible for configuring Ceph storage cluster in a containerized environment
- Constructed a streamlined Client Operator facilitating connections between multiple storage consumers and a provider cluster over HTTP network, resulting in a 25% reduction in computation load

Red Hat India Private Limited — Bengaluru, India
Software Engineer — Jul 2022 - Dec 2022
- Built an Kubernetes Operator for Red Hat OpenShift Data Foundation - Managed Service[ODF-MS] using Operator Lifecycle Manager in Go; 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

Red Hat India Private Limited — Bengaluru, India
Associate Software Engineer — Jul 2021 - Jun 2022
- Deploying 7+ containerized applications per day on Kubernetes/OpenShift to develop the Kubernetes Operator while gaining extensive hands-on experience with Docker, Kubernetes and Linux
- 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
- Built a real-time dashboard for the Site Reliability Engineering team to monitor the storage cluster in the hybrid cloud using Go, Prometheus, Alertmanager, PagerDuty and Grafana

EDUCATION

Ira A. Fulton Schools of Engineering at Arizona State University — Tempe, Arizona
Master of Science in Computer Science, GPA - 4.0/4.0 — May 2025
PES Institute of Technology — Bengaluru, India
Bachelors of Engineering in Computer Science and Engineering, GPA - 3.5/4.0 — August 2021

RESEARCH

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

Programming Languages: Go, C++, Python, HTML, CSS, JavaScript
Tools & Technologies: Docker, Kubernetes, OpenShift, Operator Lifecycle Manager, Prometheus, OpenShift Data Foundation, GitHub Actions, Ceph, AI, Machine Learning, Large Language Model, Hugging Face, MySQL, PostgreSQL
Cloud Platforms: AWS: Lambda, EC2, ECS, ECR, VPC; **GCP**: Compute Engine, App Engine; **Azure**: AKS, MLOps

LEADERSHIP

ACM Student Chapter, PESU – Vice-Chair — Aug 2019 - Aug 2020
- Co-Founded ACM PESU Student Chapter and organised technical events to empower students
- Lead a team of 10 to organise 70+ workshops on Competitive coding, Artificial Intelligence & Android App Development