

CHANDAN KUMAR

DETAILS

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EMAIL

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LINKS

[GitHub](#)

[LinkedIn](#)

[StackOverflow](#)

[PyPi Community](#)

SKILLS

Amazon Web Services (EKS, ECR, AWS Glue, Athena, Kinesis, Step Functions, EC2, EC2 Image Builder, Lambda, DynamoDB, RDS, MemoryDB, CodeBuild, CodeCommit, CodeDeploy, CodePipeline, Auto Scaling, CloudFormation, CloudTrail, CloudWatch, AWS Config, AWS Organisations, System Manager, Trusted Advisor, DMS, API Gateway, DirectConnect, Route 53, VPC, Certificate Manager, IAM, KMS, Secrets Manager, WAF & Shield, S3, EBS)

Python Development & Scripting

Kubernetes Development & Administration (EKS)

IaC (Terraform, Crossplane & Ansible)

Git (GitHub, GitLab)

RabbitMQ

CI/CD (AWS CodePipeline, CodeBuild, CodeDeploy, Jenkins, ArgoCD)

RESTful APIs (Python Flask & Request Library)

Microservices Architecture

EMPLOYMENT HISTORY

Lead Engineer - DevOps, Dish Network Technologies

Bengaluru

Jun 2023 — Present

- Design & Develop a GitOps solution to onboard new ISV to Dish and migrate existing ones to new solution.
- Design & implement a CI/CD pipeline for Kubernetes microservices architecture, reducing deployment time by 50% & increasing overall system reliability by 30%.
- Develop a Kubernetes autoscaling solution, resulting in a 25% reduction in infrastructure costs & 15% increase in application performance.
- Develop a Kubernetes-based backup and disaster recovery solution, ensuring business continuity and reducing recovery time by 50%.
- Develop a Kubernetes-based monitoring and logging solution, providing real-time visibility into system performance and reducing mean time to resolution (MTTR) by 30%.
- Develop a Kubernetes-based storage solution, increasing storage capacity by 50% and reducing storage costs by 30%.
- Work on HA & DR objectives and calculate RPO, RTO, MTTR.
- Mentoring and guiding the team of 16+ members.

Senior Cloud DevOps Engineer, Autodesk India Pvt. Ltd

Bengaluru

Jun 2021 — Jun 2023

- Utilize AWS to architect & migrate services to cloud. Always build Autodesk-wide generic solution.
- Optimize costs and automate manual processes with security best practices.
- Developed automation tools using Python, Ansible, Terraform, and AWS CloudFormation, reducing manual effort by 40%
- Improve the reliability of the systems by implementing self-healing and auto-scaling capabilities using Kubernetes & microservices architecture.
- Develop Cloud native solution to build an automation pipeline to On-board Microsoft Defender on ~15k Virtual Machines.
- Led the implementation of monitoring and logging solutions resulting in 50% reduction in issue resolution time.
- Work on Disaster Recovery (DR) objectives and calculate RPO, RTO, MTTR.
- Code review, create, guide and assign tasks to team members. Perform requirement analyses.
- Mentoring and guiding the team of 10+ members.

Senior Cloud Engineer (DevOps), Thomson Reuters

Bengaluru

Dec 2018 — Jun 2021

- Develop services using AWS serverless architecture to aid on premise apps to migrate to cloud using AWS best practices.
- Deploy resources/applications to AWS using DevOps best practices with CI/CD tools such as GitHub, CodeBuild, CodeDeploy and CodePipeline utilizing IaC with AWS CloudFormation and Terraform.
- Setting up Kubernetes cluster manually from scratch and creating objects.
- Provide guidance to application teams on leveraging AWS to ensure highly availability and fault-tolerance.
- Implement centralized monitoring/logging system and automate remediation process for self-healing.
- Participate in outages and troubleshooting process.
- Migrate the existing applications into cloud using cloud native solutions.

Docker & Elastic Container Registry (ECR)

Monitoring & Observability (Shinken, Nagios, Thruk, Grafana, Prometheus, DataDog)

Security (Prisma Scan, Microsoft Defender)

Helm Chart

Senior Software Engineer (Python Developer), Amadeus Labs

Bengaluru

Jun 2018 — Dec 2018

- Develop application code using Python language.
- Develop, test, implement and maintain application software.
- Create and consume RESTful APIs using Python programming language.
- Identify and suggest various opportunities to improve efficiency and functionality.
- Providing guidance and knowledge transfer to new team members.

Senior Software Engineer (DevOps), Philips Healthcare

Bengaluru

Dec 2016 — Jun 2018

- Collaborate with product owners to understand & gather business requirements.
- Writing effective, scalable and reusable code and performing code review.
- Work closely with the Operations team to fix high priority issues.
- Maintain documents, writing Python unit test cases, code coverage and validating the workflow of application. Build RESTful APIs using Flask.
- Focus on implementing DevOps engineering for maintaining environments availability, reliability, performance and security.
- Build and maintain infrastructure with Ansible, Python and bash script. Use Jenkins to automate the software releases, debug and fix any build issues.
- Build and monitor the infrastructure using Shinken and ELK stack.
- Providing guidance and knowledge transfer to new team members.

Program Analyst (Python Developer), Cognizant Technology Solutions

Bengaluru

Nov 2013 — Aug 2016

- Gather Requirements, research, analyze & evaluate, design of application.
- Setting up the development environment which includes Jenkins server, RabbitMQ, GitLab and database.
- Programming in Python to meet system requirements, system designs and technical specifications in accordance with quality accredited standards.
- Maintaining documentation, writing PyUnit test cases, PostgreSQL DDL & DML statements.
- Building modules to communicate to each other using RabbitMQ & Python.
- Data modeling using Python for Machine Learning model and validating it.

CERTIFICATES

Certified Kubernetes Application Developer (CKAD)

March 2024

AWS Certified DevOps Engineer - Professional

May 2023

AWS Certified Solutions Architect – Associate

Sep 2020

HashiCorp Certified: Terraform Associate

May 2023

EDUCATION

Bachelor of Technology in Information Technology, Biju Patnaik University of Technology

Bhubaneswar

Aug 2009 — Jul 2013

First class honors (7.76 CGPA)