



Souvik Dey

Software Engineer (DevOps)

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Bengaluru, India 📍

A growing DevOps practitioner and a distributed systems enthusiast, searching for ways to attain complete mastery of my discipline

WORK EXPERIENCE

Software Engineer (DevOps) Network Corp

02/2018 – Present

Bengaluru, Karnataka

Responsibilities

- Worked with ING Bank N.V. Singapore in developing CI/CD pipelines, hosting ELK stack and preparing environments for development, staging and production for their complete development workflow of their in-house product hosted in Google Cloud Platform.
- Deployed on-premise Artifactory service with integration to Google Cloud Storage for artifact caching and storage of Docker and Compute Images, integrated to the CI pipeline.
- Created service mesh using Consul for service discovery of microservices and HAProxy for service to service communication load balancing.
- Writing Docker Compose files for complete orchestration of containers during deployment across environments.
- Constructing multi-node cluster of Elasticsearch with Beats, Logstash and Kibana across development, staging and production environments.
- Following Infrastructure as Code (IaC) practices, centralizing all code and configurations in respective repositories
- Writing Packer scripts to bake Compute Images with Ansible as a provisioner to enhance deployment speed by reducing machine startup time

Software Engineering Intern Network Corp

09/2018 – 01/2019

Bengaluru, Karnataka

Responsibilities

- Developing reusable React components supporting BPMN diagrams, UI tabs, sidebars.
- Integrating OAuth 2.0 authentication of third party vendors with an implementation of a Redis database for blacklisting processed JWT tokens.
- Developing RESTful abstraction layer APIs and implementing a GridFS BSON storage engine for images and multimedia assets.
- Planning out a Microservices architecture with Docker and Kubernetes with NGINX as the reverse proxy server and load balancer.
- Building Jenkins CI/CD pipelines for development, pre production and production phases using Git Flow as the scaffolding for the design.
- Writing Ansible Playbooks for developing immutable infrastructure in GCP, with automated server configurations and infrastructure management, all which is merged to the CD pipeline.

EDUCATION

Bachelor of Technology in Power System Engineering University of Petroleum & Energy Studies

2013 – 2017

Dehradun, Uttarakhand

SKILLS

Git Jenkins Docker Kubernetes JavaScript

Node.js Ansible Terraform

Google Cloud Platform Amazon Web Services NGINX

Shell Scripting Golang Microservices CI/CD

Packer

ACHIEVEMENTS

Outstanding Intern Award (01/2019)

Have been awarded for critical and vast contributions to the organization in all realms of software development and DevOps.

Annual B-Plan Contest (02/2016)

Finalist of Annual B-Plan Contest in UPES Dehradun on the topic "Dual Harvesting of Energy using Wind Turbines" and was awarded the 4th Prize.

Technical Paper Presentation at Indian Institute of Technology Delhi (02/2016)

Awarded 1st prize for technical paper presentation on the subject "Osmotic Power Generation" among 5000 candidates.

Recipient of IT award (06/2011)

Awarded laptop for showing academic excellence at the ICSE X Board Examination

PERSONAL PROJECTS

2D Dungeon Crawler Game using Random Walk algorithm

- A 2 dimensional game resembling 'Pac Man' where the tunnels or pathways for moving the player is randomly generated based on the 'Random Walk Algorithm' on each level change or restarting the game. The game consists of 4 levels and a boss fight. The player has a health bar, weapons indicator and XP points. There are health packs and weapons scattered throughout the map. Built using React and SASS.

Conway's Game of Life Cellular Automaton Simulator

- The Game of Life is a two dimensional orthogonal grid system of square cells, each of which is alive in two possible states. Every cell interacts with its eight member adjacent neighbours. The entire game has been realised on Recursive Quad Tree Algorithm. JavaScript and React.js has been extensively used to program the algorithm with a few tid bits of UI components such as buttons and display screens.

Pinterest Clone

- A clone of the Pinterest website with features of the website replicated with the original site. Creation of Pinterest account and handling of posts and viewing other users' posts have been incorporated in the clone. Built using Node.js, SASS, React and Masonry.js

CERTIFICATES

AWS Certified Developer Associate (12/2018)

Oracle Certified Java Associate (07/2018)