Kishan Gupta

Detail-oriented full-stack engineer with 3 years of experience as a Site Reliability Engineer

Flat 2D, Aishwarya Castle Apts,
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EXPERIENCE

Media.net, Mumbai/Bangalore — *Site Reliability Engineer*

June 2017 - Dec 2019

Designed, implemented and maintained cloud infrastructure, developed software tools for automation and analysis.

Media.net, Bangalore — *DevOps Intern*

November 2016 - April 2017

Worked on the company's upcoming metrics anomaly detection system.

Freelance Software Engineer

May 2010 - October 2016

Throughout high school and higher education, developed, deployed and maintained various web applications, backend and frontend.

EDUCATION

BMS Institute of Technology, Bangalore — *Bachelor of Engineering in Computer Science and Engineering*

June 2013 - June 2017

PROJECTS

Site Reliability Engineering

Realtime Spam Detection Service

Designed, deployed, optimized and maintained a realtime service that analyzes ad clicks, ensuring response time below 20ms.

Linux, Redis, Node.js, Elasticsearch, Prometheus, Jenkins pipeline (Groovy), AWS and Netscaler Load Balancers

Evaluating Kubernetes for legacy projects

Set up Kubernetes clusters on bare-metal and AWS boxes and converted legacy monolithic projects into containers and pods.

Docker, Kubernetes, AWS EKS

SKILLS

Systems architecture, GNU/Linux administration, AWS, software engineering, web development

TECHNOLOGIES

GNU/Linux administration, networking

Infrastructure tools such as Kafka, Prometheus, Jenkins

Amazon Web Services

Automation using Python and Bash

Web development with PHP and JS

PROGRAMMING LANGUAGES

Python, Bash, PHP (Laravel), JS (Node.js, Vue.js)

Full Stack / Dev + Ops

MySQL Point-In-Time Backup and Restore

Developed a Python tool to programmatically trigger, store and manage MySQL binary logs and full dumps to allow restoration to any point in time.

MySQL, Python, Bash

Cloud utilization analyzer

Developed a system that publishes system metrics from servers, collects them into a database and analyzes underutilization.

Python, MongoDB, Kafka

Service Dependency Analysis System

Developed a system that publishes socket information from servers, collects them into a graph database and visualizes inter-dependencies, security risks, etc.

Python, Kafka, Neo4j, ArangoDB, MySQL, CSS, JS, Vue.js

Anomaly Detection and Correlation System

Developed a web application and supporting tools to visualize anomalies in system and application metrics and trigger alerts.

Python, Kafka

COMMUNITY / MISCELLANEOUS ACTIVITIES

Participated in and hosted Capture The Flag contests

Participated in CSAW CTF at IIT-Kanpur.

Created and hosted various CTF contests for interviewing and training new recruits.

Volunteered at 3 FSMK summer camps for college students

Taught various technology topics - web development, Git, Docker, etc. Created custom GNU/Linux distributions based on Debian.

INTERESTS

Science, Technology, Philosophy

Likes to be on top of new developments in science and technology and has a keen interest in philosophy.