

Nitin Goyal

Principle DevOps Engineer

Motivated, self-taught and teamwork-oriented system engineer with a can-do attitude. Has significant experience in developing and maintaining high-volume software applications and websites.

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TECHNICAL (IT) SKILLS

Programming Languages	Javascript, Python, PHP, Go	Databases	MySQL, PostgreSQL, MongoDB, Cassandra, DynamoDB, Redis, Memcache
Platforms/Frameworks/Libraries	Terraform, Helm, Kubernetes, Laravel, Express.js, Webpack, Serverless, Kafka	Tools	Git, SVN, Docker, Putty, Jira
Cloud Services	Amazon Web Services	OS	Linux

SKILLS

Software Development

System Design

Analytical Thinking

Problem Solving

Debugging

SOFT SKILLS

Mentoring

Collaboration

Creative Thinking

PROJECTS

Smart Metering Head End System (HES) (04/2022 - Present)

- Developed and maintained a Smart-Meter HES system from inception, emphasizing real-time data processing.
- Collaborated with the AWS team to enable IPv6 support for Lambda, facilitating the migration of the pull server to Lambda in IPv6 mode.
- Implemented industry-compliant data retention policies to ensure data is stored, archived, and purged as per metering industry standards.
- Utilized Cassandra for efficient storage of meter data, ensuring high availability and scalability.
- Employed AWS RDS Aurora for MySQL to store meter metadata, ensuring robust and reliable metadata storage.
- Implemented a push server for efficient data collection from smart meters, accommodating data in push mode.
- Engineered the system to handle up to 10,000 requests per second on a single server for high scalability.
- Utilized AWS SQS for inter-process event communication and AWS Lambda for event processing.
- Leveraged Golang (Go) for efficient system development.
- Leveraged Amazon Elastic Container Service (ECS) to orchestrate and run containerized applications, optimizing resource allocation and enhancing system flexibility.

Integrated Financial Management and Information System (IFMIS) (06/2019 - Present)

- Designed, developed, and maintained financial application for the state government of Telangana, ensuring robust functionality and security.
- Implemented containerization and orchestration with Docker and Kubernetes, streamlining application deployment and management processes using Helm charts.
- Leveraged AWS Predictive Auto Scaling to proactively adapt the application's capacity based on historical usage trends, optimizing resource allocation and cost-efficiency.
- Enabled independent scalability of application components, ensuring efficient resource allocation and responsiveness to specific component demands.
- Implementing AWS WAF in front of your load balancer and utilizing geo-level restrictions enhances security by protecting your web application from web application attacks and allowing you to control access based on geographic location.
- Utilized AWS CloudFront CDN to efficiently serve static content, improving content delivery and user experience.
- Utilized AWS IoT as a real-time pub-sub system to notify end users about background processes.
- Utilized AWS Lambda to perform file analysis on data stored in S3, ensuring efficient data processing and analysis.
- Designed infrastructure upgrades with minimal to zero downtime, except during necessary database-level upgrades, to ensure uninterrupted application performance.
- Achieved a peak load of approximately 7,000 requests per second, ensuring uninterrupted service to around 500 concurrent users.

WORK EXPERIENCE

Principal DevOps Engineer Pixelvide Design Solutions

08/2022 - Present

Hyderabad, India

Achievements/Tasks

- Responsible to designing and setting up overall architecture of new or existing system.
- Responsible for re-evaluating architecture and doing poc of Smart Meter HES in iterative fashion to further improving the system. Which has made the impact of ~30% cost reduction and ~40% system stability.
- Responsible to make the proactive changes into the system driven by primary factors like system performance, maintainance and cost at early stage of development cycle.
- Responsible to architect and development of Smart-Metering Head End System.

Sr. DevOps Engineer Pixelvide Design Solutions

06/2019 - 07/2022

Hyderabad, India

Achievements/Tasks

- Introduced and managed end-to-end integration and deployment cycles, enhancing workflow efficiency and reliability.
- Responsible for deploying and maintenance of finance department application for state government of Telangana.
- Responsible for setting up and maintenance of Version Control, Issue tracking and CI/CD which improved the development cycle efficiency.
- Introduce new technologies like Docker, Kubernetes, Terraform & Helm which has reduced maintainance overhead by 90% & Improved performance by 50%.
- Introduce Logging and Monitoring system to get the realtime information of the system.
- Responsible for building and setting up Disaster Recovery Plan to minimize the data loss in case of any disaster.

Software Engineer Rajasthan Patrika

01/2018 - 06/2019

Jaipur, India

Rajasthan Patrika is an Indian Hindi-language daily newspaper

Achievements/Tasks

- Responsible to build an In-house Analytics tool to get better insights into visitors with an auto-scaling architecture to handle millions of events per day.
- Built Single Sign-On for better control and management of various products and reduce security breaches.
- Built in-house centralized management system which improved the efficiency of software development by 75%.
- Led the drive to implement the Principle of Least Privilege across new software development.

Software Engineer Netleon Technologies Private Limited

07/2017 - 12/2017

Jaipur, India

Achievements/Tasks

- Responsible for introducing Version Control, Issue tracking and CI/CD which improved the development cycle efficiency.
- Reduced security breaches by 20% in the proprietary system.
- Maintain a high-volume product and improve its efficiency by 10%.

Software Engineer Possibillion Software Technologies Pvt Ltd

07/2016 - 06/2017

Hyderabad

Achievements/Tasks

- Responsible for building and maintenance of high-volume application for state government.
- Reduced security breaches by 60% company-wide.
- Responsible for development of the website

EDUCATION

Bachelor of Technology

Poornima Institute of Engineering and Technology

04/2012 - 03/2016

Jaipur, India

Courses

- Computer Science Engineering

CERTIFICATES

AWS Certified Security - Specialty (05/2021 - Present)

AWS Certified Solutions Architect - Professional
(04/2023 - Present)

AWS Certified DevOps Engineer - Professional
(03/2023 - Present)

AWS Certified Solution Architect - Associate
(09/2020 - Present)

AWS Certified SysOps Administrator - Associate
(09/2020 - Present)

AWS Certified Developer - Associate (09/2020 - Present)

AWS Certified Cloud Practitioner (08/2020 - Present)