Lokesh Mishra

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Accomplished Software Development Engineer specializing in cloud computing, DevOps practices and Blockchain technologies, with a demonstrated ability to optimize CI/CD pipelines, automating deployment processes in multi-cloud environments leading to significant reductions in operational overhead.

Detail-oriented and innovative Software Development Engineer with a solid foundation in Cloud Computing, DevOps practices and Blockchain technologies demonstrated through impactful contributions at Cisco and Prodigal AI. Renowned for designing and implementing resilient multi-cloud architectures. I have a proven track record in optimizing CI/CD pipelines and automating deployment processes, leading to significant reductions in operational overhead

Expertise encompasses a diverse range of programming languages, including Python, Go and C++, with proficiency in containerization and orchestration using Docker and Kubernetes. Known for innovative problem-solving and a steadfast commitment to excellence. Successfully led critical projects that connect cutting-edge technology with practical application, delivering transformative solutions in high-stakes environments.

Core Competencies:

- Cloud Computing
- Blockchain Development
- Project Management
- DevOps Practices
- Containerization with Docker
- Computer Networking
- Automation
- Software Development
- Data Management and Analysis

TECHNICAL SKILLS

- **Languages:** Python, C, C++, Golang, JavaScript, NodeJS, mySQL
- **Developer Tools:** CI/CD, AWS services, Jenkins, Ansible, Linux, OOPs, REST API, Web3, Git, Bitbucket
- **Technologies/Frameworks:** Cloud Computing, DevOps, Automation, Docker, Containerization, Kubernetes, Infrastructure as Code (IaC), Networking, Security, Blockchain

PROFESSIONAL OVERVIEW

Cisco Bengaluru   **Jan'23-Present**
Software Engineer II

- Worked in an agile environment on the design and implementation of resilient cloud infrastructures, incorporating autoscaling clusters, dual-arm configurations, and multi-AZ support across AWS, GCP, and Azure to tackle intricate networking issues effectively.
- Found root cause analysing and optimizing CI/CD pipelines through a redesign focused on object-oriented methodologies, achieving a 60% reduction in deployment time and enhancing overall cloud deployment efficiency.
- Led comprehensive testing efforts for AWS IMDSv2 integration across ASAv, FTDv, and FMCv, overseeing both manual and automated processes to deliver essential hotfixes promptly under tight deadlines.
- Created automation scripts using my strong proficiency in UNIX and scripting for seamless deployment in AWS and GCP environments, resulting in operational efficiency by 70% acceleration in ASAv/FTDv rollout and significantly minimizing manual intervention.

Key Achievements:

- **Optimized DevOps Automation Framework:** Reorganized a diverse and redundant automation framework, addressing the repetitive code used across multiple DevOps pipelines. Leveraging object-oriented programming (OOP) principles for the first time, this initiative streamlined the codebase, achieving a 60% reduction in overall process effort while enhancing code quality and efficiency.
- **Accelerated Deployment with Automated Solutions:** Designed a one-click deployment script for AWS and GCP to automate a previously time-consuming manual end-to-end deployment process. This solution resulted in a 70% reduction in deployment time, significantly improving operational efficiency.
- **Led AWS IMDSv2 Compatibility Testing Under Tight Deadlines:** Led testing efforts for AWS IMDSv2 compatibility following device-side code changes. Managed both manual and automated testing processes while overseeing the project independently. Successfully delivered a critical hotfix to Amazon on time, ensuring smooth compatibility and functionality under tight deadlines.

Prodigal AI   **Oct'21-May'22**
MERN stack and Blockchain Developer

- Developed an NFT Marketplace that automated the creation of NFT smart contracts, achieving a 50% reduction in deployment time while enhancing transparency and data insights through Web3.js analysis of deployed contracts.
- Specialized in Layer 2 (L2) solutions and cross-chain bridging techniques, optimizing transaction efficiency and improving

network interoperability.

Key Achievements:
- **Automated NFT Smart Contract Creation for Increased Efficiency:** Developed an NFT Marketplace that automated the smart contract creation process, resulting in a 50% reduction in deployment time and significantly enhancing contract deployment efficiency.
- **Enhanced Data Extraction from Blockchain Networks:** Implemented features to extract and analyze details of deployed smart contracts on the blockchain using Web3.js. This streamlined the data-gathering process, cutting the time required by 60% and improving overall operational efficiency.

INTERNSHIPS

Prodigal AI Technologies Pvt. Ltd. | *Blockchain Developer Intern* | Remote — Oct'21 – May'22
AFTPL - Bosch Enterprises | *Software Development Intern* | Remote — Jul'21 – Aug'21
FoodByChoice | *Full-Stack Developer* | Remote — Sep'21 – Nov'21

PROJECTS

Sound Slice | Python, AWS EKS, Docker, Kubernetes, Helm, IaC — Oct'24
- Developed and deployed a microservices architecture using Docker and Kubernetes on AWS EKS, managing four key services: auth-server, converter-module, database-server (PostgreSQL, MongoDB), and notification-server.
- Configured AWS EKS infrastructure, IAM roles, node groups, and managed security settings for a secure, scalable deployment.
- Integrated RabbitMQ for messaging queues, Helm for Kubernetes management, and implemented manifest files for streamlined microservices deployment and cluster validation.

GoConnect | Go, PostgreSQL, Redis, GCP, JWT, Jenkins, RESTful API, CI/CD — Sep'24
- Built a production-level Go REST API for a social media platform with core CRUD functionalities, user feed, and dynamic filtering, sorting, and pagination using the Repository pattern for maintainable code.
- Integrated secure authentication, role-based authorization, Redis caching, and rate limiting to optimize performance and enhance user experience.
- Automated CI/CD deployment, integrated CORS handling, comprehensive testing and GCP server logging with email notifications for reliable, robust and seamless operation.
- Utilized optimistic concurrency control and transactions for data integrity in high-traffic conditions.

Blob Storage | Python, Docker, Fast API. JWT, MySQL — Oct'22
- Implemented a file management system like GCP buckets or Amazon S3 for file upload, download, sharing and modifying
- Created the backend with FastAPI and containerized the project using Docker
- Implemented JWT tokens for authentication, reducing server load by 30-50% and lowering session hijacking risk by 60%
- Compressed files using Python zlib library before storing them as blobs in MySQL, optimizing data retrieval performance and reducing overall storage usage by up to 40%

Health Hub - Decentralized Healthcare Solution | Web3, NextJS, Solidity, Mocha, Metamask, Rinkeby — Mar'22
- Developed an Ethereum-based Dapp connecting healthcare stakeholders (e.g., Insurance, Doctors, Patients) on a transparent, scalable blockchain.
- Built the front-end with Next.js and integrated Web3 for seamless MetaMask transactions, enabling secure data sharing.
- Wrote and tested Solidity smart contracts with Mocha, ensuring reliable functionality, deployed on Rinkeby for real-world validation.

Education

- **B. Tech-Computer Science**, Vellore Institute of Technology | Vellore, India with 9.09 CGPA — 2023

Awards/Achievements

Harmony, Hackathon | Jan '22
- Achieved 12th place globally in a crypto hackathon by developing a decentralized healthcare solution.

Spark-21, ISA-VIT | May '21
- Runner-up in a hackathon with over 1,200 participants for creating an Ethereum-based full-stack DApp.

Software Associate (Board Member), IEEE-RAS VIT | Dec '20
- Led and managed technical events and operations for IEEE-RAS VIT, including website maintenance and content updates.