

Nivendu Tripathy

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PROFESSIONAL SUMMARY

Senior Infrastructure Engineer with 2+ years in **CI/CD**, **Kubernetes**, **cloud infrastructure**, and **database optimization**. Reduced deployment time 25%, improved performance 30%, managed 200+ user systems. Expert in **Docker**, **Terraform**, **AWS**, **monitoring**, and **full-stack development**.

TECHNICAL SKILLS

DevOps/Cloud: Docker, Kubernetes, Jenkins, CI/CD, Apache Airflow, Terraform, Ansible, AWS, Azure, Helm

Monitoring: Grafana, Prometheus, ELK Stack, CloudWatch, APM, Datadog

Database: PostgreSQL, MongoDB, MySQL, Redis, Query Optimization, DBA

Backend: Node.js, Express.js, RESTful API, Microservices, OAuth 2.0, JWT, RabbitMQ, Kafka

Frontend: React.js, Redux, JavaScript, TypeScript, Tailwind CSS, HTML5, CSS3

Languages: Python, JavaScript, C/C++, SQL, Bash, PowerShell

Security: Penetration Testing, OWASP, IDA Pro, Ghidra, Vulnerability Assessment

Tools: Git, JIRA, Confluence, Active Directory, IAM, RBAC, MFA, Agile/Scrum

PROFESSIONAL EXPERIENCE

Production Systems Engineer

Feb 2024 – Present

Bengaluru, Karnataka

- Architected **CI/CD pipelines** using **Apache Airflow**, **Docker**, and **Kubernetes**, reducing deployment cycles by **25%** and enabling zero-downtime releases for 50+ microservices
- Optimized **PostgreSQL** databases handling 1M+ transactions with query tuning and indexing, improving performance by **30%** with **99.9% uptime**
- Automated infrastructure provisioning using **Terraform** and **Ansible** across **AWS/Azure**, reducing manual errors by 90% and costs by 20%
- Implemented monitoring with **Grafana** and **Prometheus**, creating dashboards and alerts that increased uptime by **30%** and reduced MTTR by 40%
- Configured **RabbitMQ** message broker supporting 10K+ messages/second with 99% reliability for high-volume processing
- Managed **JIRA** administration for 200+ users with workflows and automation, reducing ticket resolution time by **20%**
- Led cross-functional initiatives, reducing incident response time by **15%** through collaboration and automation

Full Stack Developer

Oct 2023 – Jan 2024

Bengaluru, Karnataka

- Engineered **RESTful APIs** using **Node.js**, **Express.js**, and **MongoDB** with **OAuth 2.0**, handling 50K+ daily requests
- Built testing framework using **Jest** and **Selenium**, achieving **85% code coverage** and reducing bugs by 40%
- Developed **React.js** frontend with **Redux** and **Tailwind CSS**, reducing page load time by 35%
- Established **CI/CD pipeline** with automated testing, code quality checks, and deployment using **GitLab CI**

Active Directory & IT Operations Intern

Dec 2022 – Jan 2023

Bengaluru, Karnataka

- Administered **Active Directory** for 500+ users, managing lifecycle, **GPO**, **LDAP**, and domain services
- Implemented **IAM** policies including **RBAC**, **MFA**, and **SSO** for secure access management
- Automated operations using **PowerShell** scripting, reducing manual effort by 60%

PROJECTS

Sound-Based Communication Infrastructure

GitHub

Research & Development

- Designed acoustic transmission system using **Python**, **NumPy**, **SciPy**, and **Raspberry Pi** for military/underwater use
- Implemented **DSP algorithms** with FFT and error correction, achieving 40% energy efficiency improvement

EDUCATION

SJB Institute of Technology

Bengaluru, Karnataka

Bachelor of Technology in Electronics & Communication | CGPA: 7.0/10.0

Sept 2019 – June 2023

ACHIEVEMENTS

2nd Position - Hack-A-Thon + Jobathon 3.0, ACE College of Engineering (100+ teams)

Student Project Programme (SPP) - Karnataka State Council for Science & Technology