Abhishek Tiwari

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Professional Summary

Software Engineer with 3+ years of experience building scalable and distributed systems. Skilled in backend and frontend development, system diagnostics, and cloud infrastructure. Strong foundation in Go, Node.js, React, Docker, and Kubernetes. Proven track record in delivering high-availability systems, improving system performance, and ensuring compliance. Passionate about system design, testing best practices, and collaborating with cross-functional teams.

Professional Experience

Software Engineer | NCR Voyix Corporation, Hyderabad, India
July 2022 – Present

1. Designed and developed 3+ distributed microservices (Authentication, Configuration and Analytics/Monitoring) integrated with multiple POS systems, ensuring scalability and resilience.
2. Delivered 4+ end-to-end features using Node.js, React, and TypeScript, enabling seamless UX and high performance.
3. Achieved >90% test coverage across services, implemented CI/CD using GitHub Actions, and reduced deployment failures.
4. Collaborated with product, QA, and DevOps teams to align system improvements with business goals.
5. Ensured GDPR compliance by architecting secure data flows and identifying PII vulnerabilities across services.
6. Reduced operational downtime by 80% through Prometheus monitoring, Grafana dashboards, and Go-based tools.

Technical Skills

Languages: Go, C++, Python, JavaScript, TypeScript
Frameworks: Node.js, React, Blockchain
Cloud & DevOps: GCP, AWS, Kubernetes, Docker, Helm, GitHub CI/CD
Databases: Redis, MySQL, SQL
Tools: Prometheus, Grafana, Jira, Git, VSCode
Other: System Design, Agile, OAuth2.0, OIDC, NLP, MQTT

Projects

1. NGSCO Diagnostic Tool (Go): Architected and applied a CLI/GUI tool to diagnose container-based environments; reduced triage time by 80%. Top 10 in NCR Global Hackathon.
2. AI Agent (Dialogflow + GCP): Built a virtual assistant for production log and metric queries using Prometheus and Cloud Functions; accelerated diagnosis across 10+ teams.
3. COVID-19 Drug Prediction (Python): Applied MT-DTI deep learning model on Kiba, Davis, and PubChem datasets to identify potential therapeutic drugs.
4. Blockchain: Carried out a ledger and transactions integrity system in blockchain tech.
5. Hadoop Cluster (Big Data): Set up an 8-node Hadoop ecosystem; analyzed high-cardinality data from UIDAI, aviation, and financial datasets.

Publications

Multimodal Data Fusion Framework for Fake News Detection
IEEE INDICON 2023 – DOI: 10.1109/INDICON56171.2022.10039737

Education

MTech (Master's) in Computer Science | NIT Calicut | 2020 – 2022 | GPA: 8.6/10.0
BTech (Bachelor's) in Computer Science | BTKIT, Uttarakhand | 2015 – 2019 | Percentage: 70.48%