Shridhar Vilas Shinde

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EDUCATION

Rochester Institute of Technology August, 2023 – December, 2025

Master of Science in Software Engineering

Courses: Eng. Cloud Systems, Fnd. Of Software Eng, Collab. Software Development, Data Systems & Implementation, Fnd. Of Data Science & Analytics, Neural Networks, Software Quality Assurance.

SKILLS

- Programming Languages: Java, Python, Node.js, Javascript, Unix Shell Scripting, HTML5
- Frameworks: FastAPI, Pydantic, React.js, Bootstrap, RESTful API, React Native, XCode, Agile, Scrum
- Cloud Platforms: AWS, Azure, GCP
- Database: PostgreSQL, MySQL, MongoDB
- DevOps: Version control systems (Git), Terraform, Ansible, CI/CD, Docker, Kubernetes, Jenkins

PROFESSIONAL EXPERIENCE

Saayam for All | **Full Stack Developer** | Remote February, 2026 – Present

- Built a metadata-driven DynamicAdditionalFields React component that reads category metadata from localStorage and renders typed form fields dynamically across a 3-level category hierarchy, with react-i18next support spanning 12 languages.
- Developed a Google Cloud Translation MCP integration to batch-translate i18n metadata keys across all languages.
- Authored use-case documentation as a cross-functional reference for design, engineering, and QA.

RIT Bernard Kozel Program | **Software Engineer Intern** | Rochester, NY May, 2025 – August, 2025

- Integrated Google Gemini AI with function calling to create intelligent farm assistant, processing queries reducing consultation costs by 60%.
- Engineered React Native farm automation application with TypeScript supporting iOS/Android/web platforms, enabling real-time embedded IoT control and GPS-based zone management that reduced manual monitoring time by 70%.
- Established mobile-backend communication through Golang REST APIs and MQTT protocol, achieving 99.2% device command success rate across 100+ concurrent IoT devices while cutting setup time from 45 to 8 minutes.

Accenture | **Software Engineer** | Pune, Maharashtra, India May, 2021 – August, 2023

- Led wave-based AWS MGN migration of 150+ on-prem Windows/Linux servers, automating cutover via dedicated staging subnets and test launches; achieved 20% cost savings through instance right-sizing while maintaining 99.9% availability.
- Built modular Terraform codebase (VPC, IAM, ASG, ALB, RDS) across 20+ AWS environments with S3/DynamoDB remote state, cutting environment provisioning time 65%.
- Migrated 10+ on-prem MSSQL databases to Multi-AZ RDS.
- Partnered with client infrastructure, security, and application teams across every wave authored runbooks with rollback procedures and triaged live cutover incidents, delivering zero migration-attributed production incidents.

ACADEMIC PROJECTS

Kafka-Inspired Message Broker April, 2026 – Present

- Built Kafka-inspired TCP message broker in Go with persistent append-only log storage per partition, supporting multiple independent consumers reading at their own pace via offset tracking.
- Designed concurrent producer-consumer pipeline with hash-based message routing, automatic consumer group rebalancing, and mutex-protected writes preventing data corruption under concurrent load.

Multi-Cloud Kubernetes Resilience Platform March, 2026 – April, 2026

- Architected a single Kubernetes cluster spanning AWS and Azure using Terraform and Ansible, configuring Cilium CNI for secure cross-cloud pod networking.
- Implemented a GitOps delivery pipeline using ArgoCD to declaratively manage workloads across multi-cloud nodes, enabling automatic cross-cloud deployments from a single Git repository.

Distributed Ticket Booking Engine - High-Concurrency Flash Sale System December, 2025 – January, 2026

- Built fault-tolerant distributed booking system in Spring Boot leveraging Redis distributed locks and ThreadLocal-based database shard routing; prevented double-booking across 50+ concurrent booking attempts with 100% consistency verified through K6 stress testing.

CloudInfraAI - Real-Time Anomaly Detection System August, 2025 – December, 2025

- Engineered end-to-end Transformer based anomaly detection system for OpenStack logs achieving 97% accuracy and 81% recall; designed multi-modal data pipeline with 37 features.
- Built real-time inference pipeline and Streamlit dashboard featuring live metrics, severity classification, and anomaly categorization infrastructure monitoring.

Terraform Blue-Green Deployment on AWS January, 2024 – April, 2024

- Automated blue-green deployment pipeline using Terraform and GitHub Actions CI/CD for AWS infrastructure (VPC, EC2, ALB, RDS), enabling zero-downtime rollouts with traffic switching and rollback workflows, reducing provisioning time by 60% and AWS costs by 40%.