Nikhil Chowdary

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Senior Software Engineer | Full Stack .NET | Cloud/DevOps (AKS, Helm, GitLab CI/CD) | Python

Professional Summary:

- Software Engineer with 5+ years of experience building cloud-native microservices, full-stack web applications, and data/ETL solutions across Finance, Banking, and Healthcare.
- Strong hands-on experience with Python and .NET (ASP.NET Core, Web API, MVC), delivering secure, scalable APIs and backend services.
- Built and automated GitLab CI/CD pipelines with quality gates and deployed containerized workloads using Docker, Kubernetes/AKS, and Helm charts.
- Experienced in Azure (Functions, AKS, SQL) and databases including SQL Server, MongoDB, Oracle, with performance tuning, schema design, and deployments (DACPAC).
- Strong observability practices using Dynatrace, dashboards/monitoring, and production support in Agile/Scrum environments.

Technical Skills:

Core: Python, C#/.NET (ASP.NET Core, Web API, MVC), SQL, Golang
Cloud / DevOps: Azure, AKS, GitLab CI/CD, Helm, Kubernetes, Docker, Azure Functions
Data / DB: SQL Server, MongoDB, Oracle, indexing, query optimization, DACPAC deployments
Web: REST APIs, Swagger/Postman, HTML/CSS/JavaScript, React/Vue/Angular (experience)
Observability: Dynatrace, logging/metrics, dashboards, alerting
Tools: Git/GitLab, VS/VS Code, SSMS

Education:

Master's – Lewis University, Romeoville, Illinois

Professional Experience:

TCW Group – Los Angeles, CA   **Aug 2024 – Present**
Senior Software Engineer

- Designed and delivered backend services using .NET and Python, building secure API endpoints with authentication, rate limiting, and structured logging.
- Built and standardized GitLab CI/CD pipelines for automated build/test/release, including pipeline linting, security scans, and rollback-friendly deployment patterns.
- Containerized services with Docker and deployed to AKS (Kubernetes) using Helm charts and environment-specific values, improving release consistency and reducing configuration drift.
- Implemented Kubernetes best practices using ConfigMaps, Secrets, and resource/replica policies to improve reliability and cost control across environments.
- Developed event-driven components using Azure Functions for automation and asynchronous processing.
- Automated database deployments (including DACPAC workflows) and improved schema performance through indexing and query tuning across SQL Server and MongoDB.
- Integrated Dynatrace for service observability (logs, monitoring, troubleshooting), accelerating root-cause analysis in production.

Trimble – Westminster, CO   **Mar 2023 – Aug 2024**
Full Stack .NET Developer

- Built and enhanced web applications using ASP.NET / ASP.NET MVC / Web API with Entity Framework, implementing CRUD, filtering, sorting, and paging.

- Developed and optimized database objects (stored procedures, views, functions) in SQL Server and Oracle; tuned expensive queries identified in testing.
- Implemented application security patterns (authentication/authorization) and protected sensitive data flows across services.
- Delivered UI features using JavaScript libraries/framework exposure (jQuery/AJAX; React/Vue exposure), integrating REST endpoints returning JSON.
- Supported deployments to IIS and Azure; converted legacy sites to Azure-compatible web applications when needed.
- Built and maintained scalable ETL/ELT pipelines using Python and SQL, improving ingestion reliability for large datasets.
- Implemented batch and near-real-time processing using Spark/Kafka/Airflow (as applicable) and improved data quality via validation and error-handling automation.
- Containerized workloads with Docker and supported deployments using Kubernetes, aligning pipeline delivery with CI/CD practices.
- Supported cloud data platforms/warehouses and applied partitioning/indexing and governance practices.

Citi – Hyderabad, India   **Jan 2019 – Jul 2021**
Software Engineer
- Developed and maintained .NET applications and REST APIs, implementing business logic, validations, and secure data access patterns.
- Built SQL Server database objects (stored procedures, functions) and improved performance through indexing and query optimization.
- Collaborated with cross-functional teams in Agile/Scrum, participating in sprint planning, code reviews, and production support.
- Implemented logging and monitoring practices to support troubleshooting and reduce turnaround time for incident resolution.