

# Deepak Reddy Matta

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## PROFESSIONAL SUMMARY

Results-driven Senior Software Engineer with 5+ years of experience designing and implementing scalable, secure, and high-performance systems in cloud environments including AWS and Azure. Proven expertise in Identity & Access Management (IAM), building microservices, and implementing CI/CD pipelines using DevOps best practices. Adept at collaborating with architects, scrum masters, and cross-functional teams in Agile environments. Specializes in Golang and Python with strong exposure to full-stack development, security protocols (OAuth2, JWT, SAML), and infrastructure as code (Terraform, Azure DevOps).

## SKILLS

**Programming Languages:** Golang, Python, Java, PHP, JavaScript, Bash, SQL

**Cloud Platforms & Services:** AWS (Lambda, EC2, S3, CloudWatch, Timestream), Azure (Functions, DevOps Pipelines, Identity Management)

**DevOps & CI/CD:** Git, GitHub Actions, Jenkins, Azure DevOps, Docker, Kubernetes, Terraform, Infrastructure as Code

**Frameworks & API Development:** RESTful APIs, GraphQL, gRPC, Gin, Spring Boot, OAuth2, JWT, SAML, OpenID Connect

**Databases & Storage:** PostgreSQL, MongoDB, MySQL, DynamoDB, Timestream, S3, Blob Storage

**Architecture & Patterns:** Microservices, Event-Driven Architecture, Clean Architecture, DDD

**Testing & Quality:** Go testing, Ginkgo, Mockito, Load Testing, Integration Testing, Performance Tuning

**Message Queues:** Kafka or similar MQ systems

**Front-end & Miscellaneous:** Angular (Forms, Services, HTTP, RxJS), TypeScript, Component-based UI development

**Development Practices:** Agile (Scrum/Kanban), Peer Code Reviews, TDD/BDD, SOLID Principles

## EXPERIENCE

### Sr Software Engineer: Comcast

September 2022 – Current

- Developed high-performance microservices in **Golang** using the **Gin** framework to support real-time network operations and telemetry APIs.
- Designed and maintained **REST and GraphQL APIs** enabling real-time network analytics and data access.
- Developed and optimized 15+ **AWS Lambda** functions for processing critical network data (modem status, upstream/downstream metrics) from over 10M cable modems.
- Reduced API latency and DB load by introducing a dedicated client layer to optimize database access.
- Built a Redis-based push-pop mechanism on **EC2** for scheduled high-throughput event processing.
- Integrated SNMP Walk for performance data collection; stored and queried data using S3 and Timestream.
- Built and deployed CI/CD pipelines **Terraform** to manage microservices in production.
- Contributed to IAM workflows by using JWT and OAuth2 in internal tooling for access security.

- Utilized **goroutines**, **channels**, and **worker pools** to handle **concurrent processing** of modem telemetry data, enhancing throughput and reducing processing time.
- Integrated **Redis** with **Go** (go-Redis) to implement reliable and efficient event queueing mechanisms.
- Built internal tools and services in **Go to interface with SNMP-based devices**, collecting and processing large-scale performance metrics.
- Worked with Oracle, MongoDB, and Graph DB for storing structured and semi-structured telemetry and analytics data.
- Applied the Go Reflect package in internal tools for generic data processing and introspection.
- Collaborated on systems integrated with Kafka for real-time data ingestion and messaging.
- Developed and maintained internal dashboards and tools using **Angular** for data visualization and network monitoring.
- Built Angular components and services to interact with RESTful APIs, displaying real-time modem and telemetry metrics.
- Used Angular Reactive Forms and RxJS for dynamic UI behavior and event-based data updates.

#### Software Engineer: Citi Bank

**November 2021 – August 2022**

- Designed and built new Spring Boot microservices from scratch to integrate Salesforce APIs, enabling Citi's Financial Goals application to serve real-time data to frontend clients.
- Migrated legacy Spring Boot applications to Golang (Gin framework) for high-volume data processing, resulting in a 30% improvement in response times, reduced latency, and lower infrastructure costs.
- Built and maintained middleware services in Go for inter-team data sharing, efficiently filtering and transforming large datasets used by multiple Citi internal teams.
- Contributed to both greenfield development and enhancement of existing systems, ensuring performance and reliability through **unit testing** (Mockito, Ginkgo) and containerization with **Docker and Kubernetes**.

#### Software Engineer: City Tele Coin

**September 2020 – October 2021**

- Led migration efforts from a legacy PHP monolith to **Golang-based microservices**, resulting in significantly reduced latency, improved throughput, and **greater system scalability** for real-time telecom data services used in correctional facilities.
- Built concurrent data pipelines using Go routines and channels to efficiently process telecommunication call and video data from prisons and jails, enabling near real-time access for customer care teams.
- Developed and maintained **RESTful and gRPC APIs** consumed by internal frontend teams, supporting use cases like call monitoring, video call tracking, and user analytics.
- Containerized services using Docker and automated provisioning with **Terraform**, enhancing scalability and reducing deployment time and manual errors.
- Leveraged **AWS (EC2, Lambda, Timestream)** for scalable compute, event-driven processing, and time-series storage, contributing to cost-effective infrastructure.

#### Software Engineer: Accenture

**July 2017 – July 2018**

- Led the end-to-end development of an internal web application to manage and display employee data, improving accessibility and operational efficiency across departments.
- Built dynamic and responsive user interfaces using **JavaScript, Bootstrap, and jQuery**, ensuring smooth performance and cross-browser compatibility.
- Handled backend development with **PHP (Laravel)** and **MySQL**, implementing efficient database queries and CRUD operations to optimize page load times.

- Integrated RESTful APIs and XML/XSD-based data structures to support internal service communication and validation.
- Configured and monitored **CI/CD pipelines using Jenkins**, managed version control with Git, and performed deployments on **Linux/UNIX environments**.
- Collaborated with cross-functional teams following Agile practices, contributing across all phases of the SDLC including requirement gathering, development, testing, and deployment.

## **EDUCATION Southern Arkansas University      August 2018 – May 2020**

Course: Masters in computer and information science

Project:

Developed a Login and Signup System using **PHP, JavaScript** , and **MySQL** , implementing **JWT (JSON Web Tokens)** for secure authentication. The project focused on creating a user-friendly interface and a secure backend, featuring token-based session handling, input validation, and role-based access control.

## **CERTIFICATIONS**

- AWS Certified Solutions Architect - Associate

**January 2025 – January 2028**