Anil Kumar Yalla

984-349-4119 | anilkumaryalla88@gmail.com | linkedin.com/in/anilkumaryalla | github.com/anilkumar2809

Professional Summary

Software Engineer with 4+ years of experience building and scaling backend systems using Go, Python, Java, and PostgreSQL. Proven success in optimizing SD-WAN management systems, automating deployments, and modernizing legacy applications. Skilled in designing high-performance APIs, implementing CI/CD pipelines and improving infrastructure reliability across distributed systems.

Experience

Hughes Network Systems   Germantown, MD
Software Engineer   *February 2023 – Present*

- Spearheaded PostgreSQL upgrade from v11 to v16 for SD-WAN management system, resolving replication issues, implementing HAProxy + Patroni for HA, improving performance and limiting downtime to 1 hour.
- Modernized legacy Perl-based SD-WAN management modules to Golang (Gin) via Strangler Fig pattern, boosting API performance 5×, enabling containerization, adhering to REST standards, and ensuring backward compatibility.
- Implemented server-side Go feature in SD-WAN NMS to enable firmware upgrades of edge devices, leveraging asynchronous pull to scale to 500K+ CPEs, boosting throughput 10× and minimizing disruptions.
- Deployed Elastic Stack (ELK) for centralized logging and subsystem observability, reducing debug time 10% and eliminating VM-level access requirements.
- Designed and launched an internal engineering portal (Django, Python, JavaScript, Nginx) used by 20+ engineers for real-time system performance visualization, reducing issue detection time by 20%.
- Redesigned deployment pipeline with pre-window configuration generation and automation scripts for app/service orchestration, sanity checks, and rollbacks, cutting downtime from 2 hours to 30 minutes
- Developed automation and ETL pipelines (Python, MongoDB, Jenkins) to process edge device telemetry and expose REST APIs for cross-team analytics, reducing manual monitoring by 40%.
- Mentored interns and new hires, providing knowledge transfers on tech stack, design documents, and best practices, accelerating onboarding and team productivity.

Accenture   Hyderabad, India
Java Software Developer   *May 2018 – July 2019*

- Upgraded a large-scale banking application from Java 6 to Java 8 and WebLogic to JBoss server, boosting performance by 20% and enhancing security.
- Implemented REST APIs with Spring Boot to streamline data retrieval and validation across 3 internal applications, improving efficiency and reducing manual processing time.
- Developed and integrated a web-based document upload feature, reducing average handling time by 10% for support calls involving document uploads.
- Received the ACE Client and Customer Award (2018) for consistent performance and commitment, recognizing excellence in project delivery and client satisfaction.
- Tech: Java, Maven, Spring Boot, JBoss, SQL Developer, GIT, Bit Bucket, PuTTY, Splunk, SOAP-UI.

Technical Skills

Languages: Go (Golang), Java, Python, JavaScript, Shell/Bash, Perl, SQL, HTML/CSS
Frameworks & Tools: Django, Gin, Spring Boot, JUnit, OpenAPI, Postman, MailHog
Databases: PostgreSQL, MongoDB, MySQL, MariaDB
DevOps & Cloud: Docker, Jenkins, Git, Nginx, Patroni, Elastic Stack (ELK), AWS, Ansible, VMware vSphere/ESXi
Development Practices: Agile Software Development, REST API Standards, Object-Oriented Programming (OOP), CI/CD Pipelines, Algorithms & Data Structures.
Certifications: Microsoft Technology Associate – Cloud Fundamentals.

Education

North Carolina State University   Raleigh, NC
Master of Computer Science (GPA: 4.00 / 4.00)   *January 2021 - December 2022*

Sreenidhi Institute of Science and Technology   Hyderabad, India
Bachelor of Technology in Computer Science and Engineering (GPA: 8.7)   *August 2014 - April 2018*