

Dela Anthonio

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Summary

Senior Backend Engineer with 6+ years of experience, recognized as a technical advisor consulted by senior engineers across teams for complex observability and performance challenges. Known for methodical approach to completing stalled migrations - including data-driven legacy portal deprecation using New Relic traffic analysis to map dependencies and safely migrate 50+ endpoints after years of failed attempts. Expert at surgical system decomposition, achieving zero downtime through innovative solutions like regex-based Kubernetes ingress routing when no playbook exists. Ship self-sufficient backend services with built-in operational excellence, eliminating the need for dedicated DevOps support.

Skills

Software Development: Python, Django, Django REST Framework, Celery, React, TypeScript, SQL, Java, REST APIs

Message Queues: RabbitMQ, Apache Kafka, Amazon SQS

Databases: MySQL, Postgres, Elasticache (Redis), OpenSearch (Elasticsearch)

Cloud Infrastructure: Amazon Web Services (AWS), EC2, Amazon S3, Lambda, Kubernetes, Terraform, Infrastructure as Code (IaC)

CI/CD and Version Control: Git, GitHub, GitHub Actions, Docker, Elastic Container Registry (ECR)

Observability: New Relic, CloudWatch, Distributed Tracing, APM

Methodologies: Agile, Scrum, Kanban, Test-Driven Development (TDD), DevOps, SRE

Professional Experience

Software Engineer - Invitae (LabCorp)

February 2021 – Present (3.5+ years) | Remote

Technical Leadership & Observability Excellence

Established as the department's observability expert, advising senior engineers across 3 teams on monitoring strategies and complex debugging

Reduced mean time to detection from hours to <10 minutes, preventing ~5 production incidents monthly

Improved API performance by 43% through systematic optimization and caching strategies

Complex Migrations & System Modernization

Pioneered zero-downtime ingress controller migration for monolith Django app using novel regex routing

Completed multi-year stalled portal deprecation using New Relic traffic analysis to map dependencies and safely migrate 50+ endpoints

Consolidated 8 legacy services into 3 microservices, reducing operational costs by ~\$200k annually

Reduced API surface area by 27% while maintaining 100% functionality

Product Delivery & Business Impact

Architected carrier test processing system enabling \$1M daily revenue

Led technical implementation of financial assistance platform post-LabCorp acquisition

Reduced CI/CD pipeline time by 54% through parallelization and caching

Software Engineer - (Infosys)

February 2019 – February 2021 (2 years) | Hybrid (Washington, DC)

Built utility applications serving 100,000+ customers

Reduced production incidents by 50%

Improved query performance by 30%

Key Technical Achievements

Migration and Methodology

Ingress Controller Migration: First backend engineer to successfully migrate production traffic between Kubernetes ingress controllers using regex pattern routing when no playbook existed, achieving zero downtime for a business-critical application

Legacy Portal Decommissioning: Used observability tools creatively to map dependencies, completing backend migration work stalled for years

Message Queue Modernization: Replaced unreliable notification system with RabbitMQ as part of a backend service redesign

Technical Leadership without Authority

Code Review Excellence: Conduct 10+ reviews weekly, preventing ~2 production incidents monthly through pattern recognition and architectural guidance

Design Culture Champion: Introduced design doc practice for major features - coached engineers through technical proposals improving decision quality

Early Design Partnership: Pair with engineers during design phase providing feedback before implementation - helped frontend engineer architect robust async reconciliation job

Architecture Documentation: Created comprehensive documentation for 3 critical services, reducing onboarding time from weeks to days

Cross-Functional Mentorship: Guide engineers outside their domains through complex implementations - bridging frontend/backend knowledge gaps

Standards Through Influence: Drove adoption of monitoring and deployment practices across teams without formal mandate

Developer Productivity and Platform Contributions

Observability Standards: Established monitoring patterns for backend services adopted across teams

API Consolidation: Reduced backend API complexity by 27% while maintaining all business functionality

Service Automation: Automated backend service deployment and monitoring, reducing manual work by 60%

Education

Bachelor of Science in Computer Science

Virginia Tech, Blacksburg, VA | Graduated 2018

Impact Metrics

Reliability: 99.9% uptime | 70% faster incident resolution | ~24 incidents prevented annually

Efficiency: 40% operational burden reduction | 54% faster deployments | 27% API reduction

Business: \$1M daily revenue enabled | ~\$200k annual savings | Zero-downtime migrations