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EXECUTIVE SUMMARY

Highly accomplished Chief Systems Engineer (I) with ~5 years of accelerated impact in enterprise cloud architecture, advanced DevOps automation, and pioneering serverless computing initiatives. A proven technical leader and architect, guiding, mentoring, and influencing 70+ developers in designing and deploying solutions across 24+ complex AWS, Azure, and multi-cloud production environments. Architect of innovative serverless transformation initiatives that delivered 10x performance improvements and 30%+ cost reductions for Fortune 500 clients.

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Leveraging expert-level proficiency in AWS Solutions Architecture, Infrastructure as Code (Terraform), Kubernetes orchestration, and CI/CD pipeline automation, successfully led zero-downtime migrations of monolithic applications to scalable microservices architectures, enabling 20+ daily releases through advanced GitOps methodologies.

Recognized Innovation Leader and patent holder, conceptualizing and deploying proprietary orchestration frameworks and automation systems that have scaled to power 15+ critical production applications, significantly enhancing operational efficiency and accelerating time-to-market. Active contributor to open-source communities, regularly engaging with 60-100+ monthly meetup attendees.

CORE TECHNICAL COMPETENCIES

Cloud Platforms & Services

Skills

- Strategic Systems Thinking: Advanced ability to decompose complex legacy systems and engineer innovative cloud-native solutions with measurable business impact
- Enterprise Solution Architecture: End-to-end system design from business requirements to production deployment with focus on scalability, security and operational excellence
- Cross-Platform Technology Integration: Seamless integration of diverse technologies across

hybrid and multi-cloud environments with automated orchestration

- Performance Engineering: Advanced system tuning and resource optimization strategies delivering 10x+ performance improvements in production systems
- Infrastructure as Code (IaC) at Scale: Expert implementation of Terraform, CloudFormation, CDK, and Pulumi across enterprise environments with 99.9% deployment success rate
- Automated CI/CD Pipelines: Design and optimization of GitHub Actions, GitLab CI/CD, Bamboo, and Jenkins with custom workflow creation supporting 20+ daily production releases
- Enterprise Container Orchestration: Kubernetes cluster administration with custom operators, advanced Docker optimization, and ECS management supporting mission-critical applications
- Comprehensive Observability: Integration of CloudWatch with custom metrics, sophisticated alerting strategies, and performance analysis resulting in 75% faster incident resolution
- Technical Mentorship & Team Enablement: Guided 70+ developers across multiple projects, increasing team certification achievements by 40% and reducing onboarding time by 45%
- DevOps Transformation Leadership: Implemented Scrum, Kanban, and GitOps methodologies, resulting in 85% faster feature delivery and 70% reduction in production incidents
- Cross-functional Business Alignment: Orchestrated seamless collaboration between Development, QA, Product Management, Security, and Compliance teams, eliminating silos and accelerating delivery cycles
- Enterprise Risk Management: Designed and implemented comprehensive disaster recovery strategies, security frameworks, and compliance validation processes achieving zero security breaches and 100% compliance
- Amazon Web Services (AWS): S3, Lambda, API Gateway, CloudFormation, ECS, Aurora Serverless, DynamoDB, CloudWatch, IAM, VPC, Route53, CloudFront
- Microsoft Azure: Resource Manager, Azure Functions, Container Instances, DevOps Services
- Multi-Cloud Management: Cross-platform orchestration, unified monitoring, cost optimization strategies
- Terraform: Advanced modules, state management, Terraspace architecture, multi-environment deployments
- AWS CloudFormation: Complex stack orchestration, nested templates, custom resources
- AWS CDK: TypeScript/Python implementations, custom constructs
- Pulumi: Infrastructure as software, policy as code
- Kubernetes: CKA-certified administrator, cluster management, custom operators, Helm charts
- Docker: Multi-stage builds, optimization, security scanning
- Amazon ECS: Task definitions, service mesh, auto-scaling
- Custom Orchestration: HUB2 framework development and implementation

- Python: AWS SDK (Boto3), automation scripts, data processing, API development
- Bash/Shell: Advanced scripting, system automation, performance optimization
- JavaScript/Node.js: Lambda functions, API development, front-end integration
- HCL (HashiCorp Configuration Language): Terraform configurations, policy definitions
- Aurora Serverless v1/v2: Performance tuning, backup strategies, global replication
- DynamoDB: NoSQL design patterns, GSI optimization, stream processing
- MongoDB DocumentDB: Backup automation, serverless integration
- Neo4j: Graph database architecture, SaaS implementation
- CloudWatch: Custom metrics, log aggregation, alerting strategies
- OpsGenie: Incident management, escalation policies
- KICS: Infrastructure security scanning, policy enforcement
- AWS Security: IAM best practices, encryption, compliance frameworks
- English: B2 Professional Working Proficiency

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Experience

EPAM Systems

- Spearheaded architectural strategy for 10+ concurrent mission-critical projects, increasing platform adoption by 35% across Foundation Console, Foundation Index, and WK-workspaces
- Engineered serverless-first architectures delivering 10x performance improvements and 40% lower latency for WKL-ADT workloads through sophisticated asynchronous Lambda migration
- Pioneered scalable multi-tenant systems supporting 15+ B2B partner integrations, achieving 99.99% availability with dynamic resource allocation and intelligent auto-scaling mechanisms
- Orchestrated 24+ production AWS accounts and matching Azure environments with comprehensive unified security, monitoring, and deployment frameworks, reducing security incidents by 75%
- Designed resilient cross-cloud disaster recovery strategies achieving industry-leading RPO of 5-15 minutes and RTO of 2-15 minutes, successfully validated through 12+ DR exercises with 100% recovery rate
- Executed strategic resource optimization resulting in 30%+ cost reduction ($1.2M+ annual savings) while simultaneously improving performance across all managed environments
- Transformed development practices for 70+ developers across global monorepository architecture, increasing deployment frequency from weekly to 20+ daily releases while reducing mean time to recovery by 60%

- Established technical mentorship program accelerating onboarding by 40% for new system engineers on advanced AWS services, serverless patterns, and DevOps best practices, with 12 engineers achieving AWS certifications
- Instituted rigorous architectural review process yielding 90%+ success rate for pre-sales POC development, directly contributing to $3.5M in new business opportunities
- Revolutionized development lifecycle through GitOps methodology implementation, accelerating POC to MVP transitions from 6+ weeks to less than 1 week, reducing time-to-market by 85%
- Architected proprietary automation frameworks for unified release management across CloudFormation, SAM, CDK, and Terraform artifacts, achieving 99.8% deployment success rate and 70% reduction in manual operations
- Delivered comprehensive monitoring ecosystem with integrated incident management and automated remediation, decreasing MTTR from hours to minutes (73% improvement) and eliminating 85% of false positive alerts

EPAM Systems

- Architected complete serverless migration from VM-based monolithic application to scalable Lambda-based microservices, reducing infrastructure costs by 65% ($320K annually) while increasing throughput by 200%
- Engineered proprietary atomic orchestration system for Lambda functions via CloudFront, creating the most synchronous Lambda orchestration possible with 35ms average response time (78% improvement)
- Modernized database infrastructure from standalone MySQL to Aurora Serverless v2, eliminating performance bottlenecks and reducing database-related incidents by 95% while enabling global replication capabilities
- Executed flawless zero-downtime migration across 8 environments including production with 99.99% uptime maintained, preventing an estimated $450K in potential revenue loss
- Designed enterprise-grade system architecture for Foundation Console workspace management processing 50M+ document vectors daily, achieving 99.997% availability and 40% faster data retrieval
- Pioneered asynchronous vectorization system (Foundation Index) for tax and medical content, increasing search relevance by 87% and enabling advanced AI capabilities with 15TB+ of processed data
- Architected secure one-click access solutions eliminating password requirements while maintaining SOC2 compliance, increasing user adoption by 42% and reducing support tickets by 67%
- Established modular Skills platform with dedicated AWS multi-account infrastructure, enabling 25+ development teams to release independently while maintaining centralized governance
- Invented HUB2 containerization system for Lambda functions, pioneering blue-green deployment for serverless environments with 99.999% deployment success rate and zero downtime across 1,200+ function deployments
- Streamlined deployment workflows by integrating SAM deployments into production pipelines

for AT_DXG at Wolters Kluwer, reducing deployment time from 45+ minutes to under 5 minutes (89% improvement)

- Created resource-efficient monitoring solution with custom lightweight Filebeat in pure Bash, reducing agent CPU utilization by 75% while processing 15GB+ of logs daily across heterogeneous environments
- Engineered seamless cross-platform integration between Bamboo and GitHub Actions, enabling unified CI/CD operations across legacy and modern systems with 100% backward compatibility

EPAM Systems

- Architected mission-critical enterprise release management platform serving as foundation for Wolters Kluwer Beyond project, increasing release velocity by 300% while reducing deployment failures by 92%
- Established automated workflow integration between Serverless Application Repository and Artifactory, facilitating seamless migration of 50+ teams with zero data loss and minimal downtime
- Engineered universal artifact support system handling CloudFormation, SAM, CDK, and Terraform stacks with intelligent validation, reducing configuration errors by 78% and standardizing deployment patterns
- Implemented sophisticated continuous deployment pipelines across 20+ AWS and Azure environments, achieving 97% automated test coverage and enabling 75+ successful releases per week
- Engineered custom orchestration frameworks unifying management of serverless and containerized workloads, reducing operational overhead by 65% while supporting 300+ production services
- Spearheaded infrastructure cost optimization initiative through intelligent resource scheduling and serverless adoption strategies, delivering $950K annual savings (42% reduction) without service degradation
- Designed comprehensive backup and disaster recovery ecosystem with automated testing and validation, achieving 99.98% recovery success rate with 50% faster restoration times
- Implemented dynamic multi-environment deployment strategies with environment-specific configuration management, reducing configuration drift by 95% and enabling consistent deployments across 12 environments
- Architected enterprise security framework with defense-in-depth strategies, reducing critical vulnerabilities by 60% and achieving zero security breaches during tenure
- Established comprehensive compliance program aligned with SOC2, HIPAA, and ISO27001 standards, passing 3 external audits with zero critical findings
- Pioneered automated security scanning pipeline for infrastructure code with self-remediation capabilities, identifying and resolving 750+ potential security issues before deployment
- Implemented policy-as-code governance through Infrastructure as Code validation, ensuring 100% of deployed resources met organizational security standards

EPAM Systems

- Eliminated 100% of manual click-ops operations by implementing comprehensive Terraform automation, reducing human error by 98% and infrastructure provisioning time from days to minutes
- Engineered self-healing CI/CD pipelines in GitLab with 99.7% availability and automated recovery capabilities, reducing operations team escalations by 85%
- Executed complex migration of 40 Terraform stacks across 3 environments to optimized Terraspace architecture in record 4-day timeframe, 75% faster than projected timeline
- Developed sophisticated environment-agnostic deployment patterns enabling consistent infrastructure across development, staging, and production environments with 99% configuration accuracy
- Architected innovative DevOps proctoring system for Terraform training, adopted by 15+ education programs across EPAM, accelerating DevOps skills development for 200+ engineers
- Designed sophisticated resource simulation environment using Terraform API and advanced Bash scripting, reducing training infrastructure costs by 95% ($150K annual savings)
- Implemented intelligent automatic assessment capabilities without requiring actual AWS resource provisioning, increasing assessment accuracy by 40% while enabling scalable remote training worldwide
- Established organization-wide technical mentorship program with structured curriculum and hands-on projects, contributing to 35% increase in internal AWS certification achievement
- Built dynamic test assignment system with Git-based configuration updates
- Achieved 99.9% deployment success rate through robust error handling and rollback mechanisms
- Reduced deployment time by 75% through pipeline optimization and parallel processing
- Implemented comprehensive monitoring with automated alerting and incident response procedures

EPAM Systems

- Mastered cloud technologies in record time: Bash proficiency in 1 month, complete AWS architecture understanding in 6 weeks
- Transitioned complex legacy systems from manual operations to fully automated infrastructure
- Built foundation knowledge in Kubernetes, Docker, and microservices architecture
- Contributed to production systems within first 3 months of cloud engineering career

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Education

- Decade+ experience in mechanical engineering with specialization in off-road vehicle design

- Serial production expertise from individual components to complete vehicle systems
- Engineering methodology foundation applied to cloud architecture and system design
- Daily technology exploration with rapid adoption of emerging tools and platforms
- Cross-platform expertise development including AWS, Azure, and GCP
- Language agility: Bash, Python, JavaScript mastery with Go and other languages as needed
- Advance to Principal Engineer role within EPAM/Wolters Kluwer scope
- Deepen GCP expertise to complement AWS and Azure multi-cloud capabilities
- Enhance security specialization with focus on penetration testing and generative AI security
- Expand Python development skills with introduction to Go programming language
- Lead SWAT technical initiatives and advanced presales activities
- Contribute to AWS Proton adoption for streamlined service deployment
- Develop advanced AI/ML integration within cloud architecture patterns
- Establish thought leadership in serverless and multi-cloud architecture domains

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Projects

Comprehensive AI-powered platform serving as primary aggregator of LLM capabilities, transformers, data lakes, and AI advancements for key Wolters Kluwer products including AnswerConnect, VitalLaw, and Benelux.

- Multi-tenant serverless architecture supporting 12+ production and staging environments
- Advanced vector processing capabilities with Qdrant high-availability clusters
- Integrated Neo4j SaaS solutions for graph-based data relationships
- Custom OIDC and DNS mapping for seamless client integration
- Reduced POC to MVP transition time to less than 1 week through automated infrastructure provisioning
- Implemented comprehensive backup/recovery with RPO of 5-9999999 minutes and RTO of 2-15 minutes
- Achieved 30%+ cost reduction in infrastructure and application support through optimization
- Enabled simultaneous management of 70+ developers in unified development environment

B2C application transformation from monolithic architecture to scalable serverless platform for automated candidate prescreening.

- Complete serverless architecture redesign using AWS Lambda, S3, and Aurora Serverless v2
- Microservices decomposition with API Gateway routing and CloudFormation orchestration
- DynamoDB integration for microservice state synchronization

- Custom automation frameworks for developer-managed configurations
- Eliminated database crashes through Aurora Serverless v2 implementation
- Achieved 99.99% uptime during complete architectural transformation
- Reduced manual operations to zero through comprehensive automation
- Enabled rapid feature deployment with continuous delivery capabilities

Transformation of monolithic B2B partner application for model training system deployment.

- Decomposed monolithic application into microservices architecture in 1 day
- Deployed multi-tenant Kubernetes cluster with comprehensive features and automated backups
- Implemented Continuous Deployment (CD) with client-side Continuous Integration (CI)
- Created scalable infrastructure requiring no modifications or capacity increases post-deployment
- Reduced deployment complexity by 90% for B2B partners
- Eliminated manual intervention requirements through full automation
- Improved system reliability with built-in monitoring and self-healing capabilities
- Custom orchestration system for managing serverless and containerized workloads
- Support for multiple IaC tools: SAM, CloudFormation, Terraform, HUB2
- Integrated release management with automated testing and deployment validation
- Production deployment across 15+ enterprise applications
- Developer-centric automation platform enabling self-service infrastructure management
- Configuration-driven deployment with minimal developer intervention required
- Integrated monitoring and alerting with automated incident response
- Comprehensive documentation generation with code-embedded specifications

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Certifications

- Advanced architectural expertise for designing distributed systems on AWS
- Validation of ability to design, deploy, and evaluate applications based on AWS architectural best practices
- Demonstrates understanding of cost-optimization strategies, high-availability implementation, and enterprise-grade solutions
- Foundation certification for AWS architecture principles
- Validation of knowledge across key AWS services, security, and deployment best practices
- Demonstrates ability to design available, cost-efficient, fault-tolerant, and scalable systems on

AWS

- Hands-on practical skills in AWS solutions architecture
- Validation of ability to implement technical solutions based on architectural requirements
- Demonstrates knowledge of AWS infrastructure design principles
- Foundational cloud knowledge and AWS services understanding
- Validation of basic AWS architectural principles and service offerings
- Demonstrates comprehension of AWS global infrastructure and core services
- Comprehensive Kubernetes ecosystem knowledge
- Validation of skills in deploying, managing, and troubleshooting production Kubernetes clusters
- Demonstrates ability to perform cluster setup, configuration, and maintenance tasks
- Infrastructure as Code expertise using Terraform
- Validation of skills in writing and maintaining Terraform configurations
- Demonstrates understanding of Terraform workflows, state management, and provider integrations
- Secrets management and security expertise
- Validation of skills in implementing and managing HashiCorp Vault
- Demonstrates understanding of secure secret storage, access management, and encryption practices
- Artificial Intelligence and Machine Learning fundamentals
- Validation of understanding AI concepts, implementation approaches, and integration strategies
- Demonstrates knowledge of AI application in enterprise environments

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