

HLEB YARMOLCHYK

Chief Systems Engineer I | AWS Cloud Architecture & DevOps Expert

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EXECUTIVE SUMMARY

Distinguished Chief Systems Engineer with 4+ years of progressive expertise in **enterprise cloud architecture**, **DevOps automation**, and **serverless computing**. Proven technical leader managing **70+ developers** across **24+ production environments** with **AWS**, **Azure**, and **multi-cloud strategies**. Architect of innovative **serverless transformation initiatives** that delivered **10x performance improvements** and **30%+ cost reductions** for Fortune 500 clients.

Technical Excellence: 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** supporting **20+ daily releases** through advanced **GitOps methodologies**.

Innovation Leadership: Creator of proprietary **orchestration frameworks** and **automation systems** now powering **15+ production applications**. Holds **multiple patents** in engineering systems and maintains active contributions to **open-source communities** with **60-100+ monthly meetup attendees**.

CORE TECHNICAL COMPETENCIES

Cloud Platforms & Services

- **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

CORE TECHNICAL COMPETENCIES

Cloud Platforms & Services

- **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

Infrastructure as Code (IaC)

- **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

Container Technologies & Orchestration

- **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

CI/CD & DevOps Automation

- **GitHub Actions:** Complex workflows, matrix builds, custom actions
- **GitLab CI/CD:** Pipeline optimization, multi-stage deployments
- **Bamboo:** Enterprise integration, deployment automation
- **Jenkins:** Pipeline as code, plugin development

Programming & Scripting

- **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

Databases & Data Management

- **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

Monitoring, Security & Compliance

- **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

PROFESSIONAL EXPERIENCE

EPAM Systems

Chief Systems Engineer I | December 2024 – Present

Role: Technical leadership for enterprise cloud transformation initiatives across multiple business domains including healthcare, legal research, and AI-powered real estate platforms.

Key Responsibilities & Achievements:

Enterprise Architecture Leadership - Lead architectural decisions for 10+ concurrent projects including Foundation Console, Foundation Index, and WK-workspaces - **Design serverless-first architectures** achieving **10x performance improvements** for WKL-ADT workloads through asynchronous Lambda migration - **Architect multi-tenant systems** supporting B2B partner integrations with dynamic resource allocation and automated scaling

▲ **Multi-Cloud Infrastructure Management - Manage 24+ production AWS accounts** and matching Azure environments with unified security, monitoring, and deployment frameworks - **Implement cross-cloud disaster recovery** strategies with RPO of 5-15 minutes and RTO of 2-15 minutes - **Optimize resource utilization** resulting in **30%+ cost reduction** across all managed environments

Technical Leadership & Team Coordination - Guide 70+ developers across global monorepository architecture supporting 20+ daily releases - Mentor system engineers on advanced AWS services, serverless patterns, and DevOps best practices - Conduct architectural reviews and provide technical consultation for pre-sales POC development

Innovation & Process Improvement - Implement GitOps methodology enabling seamless transitions from POC to MVP in less than 1 week - Develop custom automation frameworks for release management across CloudFormation, SAM, CDK, and Terraform artifacts - Create advanced monitoring solutions with integrated incident management and automated remediation

EPAM Systems

Lead Systems Engineer | April 2023 – December 2024

Role: Senior technical contributor specializing in serverless transformations and advanced cloud architecture implementations.

Major Project Achievements:

EPM-RDEX Serverless Transformation - Architected complete serverless migration from VM-based monolithic application to scalable Lambda-based microservices - Implemented atomic orchestration system for Lambda functions via CloudFront, creating the most synchronous Lambda orchestration possible - Upgraded database infrastructure from standalone MySQL to Aurora Serverless v2 with global replication readiness - Achieved zero-downtime migration across all environments including production with 99.99% uptime maintained

Foundation and Beyond Platform Development - Created system architecture for Foundation Console workspace management supporting vector data processing modules - Developed asynchronous vectorization system (Foundation Index) for tax and medical content with transition from keyword to vector search - Implemented one-click access solutions without password requirements for enhanced user experience - Built Skills platform with dedicated AWS account environment setup and deployment frameworks

Advanced Orchestration Systems - Designed HUB2 containerization system for Lambda functions, pioneering blue-green deployment for serverless environments - Integrated SAM deployments into production pipelines for AT_DXG at Wolters Kluwer with comprehensive release management - Developed custom lightweight Filebeat in pure Bash for log collection, agnostic to current system state - Created cross-platform integration between Bamboo and GitHub Actions for simultaneous CI/CD system operation

EPAM Systems

Senior Systems Engineer | May 2022 – April 2023

Role: Advanced infrastructure automation and enterprise DevOps implementation specialist.

Technical Implementations:

Release Management Platform Development - Architected enterprise release management platform serving as foundation for Wolters Kluwer Beyond project - Integrated Serverless Application Repository for automated release management with Artifactory team migrations - Implemented support for multiple artifact types including CloudFormation, SAM, CDK, and Terraform stacks - Developed continuous deployment capabilities for 20+ AWS and Azure environments

Infrastructure Optimization Projects - Created custom orchestration frameworks managing both serverless and containerized workloads - Optimized infrastructure costs through intelligent resource scheduling and serverless adoption strategies - Implemented advanced backup and disaster recovery solutions with automated testing and validation - Designed multi-environment deployment strategies with environment-specific configuration management

Security & Compliance Enhancement - Integrated advanced security measures into platform architecture, reducing vulnerabilities by 60% - **Implemented compliance frameworks** aligning with industry security standards and regulatory requirements - **Developed automated security scanning** and remediation processes for infrastructure code - **Created security policy enforcement** through Infrastructure as Code validation

EPAM Systems

Systems Engineer | July 2021 – May 2022

Role: Infrastructure automation specialist and DevOps pipeline architect.

Key Accomplishments:

✂ **Infrastructure Automation Transformation** - Eliminated manual click-ops operations by implementing comprehensive Terraform automation across all systems - **Built resilient CI/CD pipelines** in GitLab with self-healing deployment automation that operates independently - **Migrated 40 Terraform stacks** across 3 environments to optimized Terraspace architecture in record 4-day timeframe - **Created environment-agnostic deployment patterns** enabling consistent infrastructure across development, staging, and production

Educational Platform Development - Developed DevOps proctoring system for Terraform training, utilized across EPAM DevOps education programs - **Created resource simulation system** using Terraform API and Bash logic for training environments - **Implemented automatic assessment capabilities** without requiring actual AWS resource provisioning - **Built dynamic test assignment system** with Git-based configuration updates

Performance & Reliability Improvements - 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

Junior Systems Engineer | February 2021 – July 2021

Role: Entry-level cloud engineer with rapid progression to advanced responsibilities.

Career Acceleration Achievements: - 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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MAJOR PROJECT PORTFOLIO

Wolters Kluwer Digital Experience Group (WKL-DXG)

Foundation and Beyond Platform | *Cloud Platform Architect* | 2023-Present

Description

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.

Technical Architecture

- **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

Results & Impact

- **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

EPM-RDEX Examiner Platform

Key Engineer & Architect | 2021-Present

Description

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

Technical Implementation

- **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

Results & Impact

- **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

OneML Machine Learning Platform

Technical Consultant | 2023

Description

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

Technical Solution

- **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

Results & Impact

- **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
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Proprietary Framework Development

Foundation and Beyond Self-Platform Orchestration Framework

- **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

EPM-RDEX Lazy DevOps Framework

- **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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TECHNICAL EXPERTISE MATRIX

PROFESSIONAL CERTIFICATIONS

AWS Certifications

AWS Certified Solutions Architect - Professional

Issued by Amazon Web Services (AWS) | 2022

- 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

AWS Certified Solutions Architect - Associate

Issued by Amazon Web Services (AWS) | 2021

- 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

AWS Cloud Quest: Solutions Architect

Issued by Amazon Web Services (AWS) | 2022

- 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

AWS Cloud Quest: Cloud Practitioner

Issued by Amazon Web Services (AWS) | 2022

- 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

Kubernetes & Container Technologies

CKA: Certified Kubernetes Administrator

Issued by Linux Foundation | 2022

- 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

HashiCorp Certifications

HashiCorp Certified: Terraform Associate

Issued by HashiCorp | 2022

- 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

HashiCorp Certified: Vault Associate

Issued by HashiCorp | 2023

- 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

Emerging Technologies

AI Literacy Program

Issued by EPAM Systems | 2024

- 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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PUBLICATIONS & TECHNICAL CONTRIBUTIONS

Technical Articles & Documentation

Advanced Cloud Architecture Patterns

Published on wearecommunity.io | 2023

- Comprehensive guide to implementing serverless and microservices architectures in enterprise environments
- Exploration of cost optimization strategies and performance enhancements for cloud-native applications
- Practical implementation examples with AWS services and infrastructure as code approaches

Internal Technical Documentation

EPAM Systems & Wolters Kluwer | 2021-Present

- 50+ comprehensive guides on serverless architecture implementation and best practices
- Detailed technical documentation for custom frameworks and automation systems
- Knowledge base articles on AWS services optimization and advanced configuration patterns

Patent Portfolio

Engineering Systems Patents

Multiple Registered Patents

- **Patent:** DYNAMIC PROPERTIES OF SELF-PROPELLED ALL-PURPOSE POWER UNIT WITH A HYDROMECHANICAL TRANSMISSION OF TWO-LINE TYPE
- **Patent:** A self-propelled grain harvester running on gaseous fuel. 190376 U1
- **Patent:** Grain harvester Y №4475
- **Patent:** A self-propelled grain harvester with a power unit running on gaseous fuel. U 190375 U1
- **Patent:** Device for collecting liquid and monitoring its level in a tank BY U 10162
- **Patent:** Friction clutch 20382 C2 F 16D 13/00

Open Source Projects

LambdaTerminal

GitHub Repository

- Custom terminal interface for AWS Lambda management and deployment
- Streamlined developer experience for serverless function operations
- Integrations with AWS CLI and CloudWatch for enhanced visibility

Terraform Proctor System

GitHub Repository

- Educational platform for Infrastructure as Code training and assessment
- Automated validation of Terraform configurations without resource provisioning
- Dynamic test assignment system with Git-based configuration updates

Custom Filebeat Implementation

GitHub Repository

- Lightweight log collection system implemented in pure Bash
- System-state agnostic operation for reliable log aggregation
- Minimal footprint alternative to traditional logging agents

Community Leadership & Speaking

CloudSquad GYM Workshop Series

EPAM Cloud Community

- Monthly technical presentations to 60-100 cloud professionals
- Workshop: Custom Load Balancer & Serverless Orchestration in AWS
- Workshop: Understanding AWS Lambda Internals deep-dive session
- Workshop: Advanced AWS DMS implementation strategies

AWS User Group Contributions

3City AWS Community

- Regular speaker at local AWS user group events
- Technical content contributor focusing on serverless architecture
- Active participant in community knowledge sharing initiatives

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EDUCATION & BACKGROUND

Technical Education

Mechanical Engineering Background

Expert Level

- 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

Professional Development

Continuous Learning Commitment

- 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

Future Technical Development

Short-term Objectives (6-12 months)

- 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

Long-term Vision (1-3 years)

- 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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Last updated: July 01, 2025

TECHNICAL EXPERTISE MATRIX

Enterprise Architecture (Expert Level)

- **Systems Thinking:** Ability to decompose existing systems and compose them with new approaches and technologies
- **Solution Architecture:** End-to-end system design from requirements to production deployment
- **Technology Integration:** Cross-platform integration and unified system orchestration
- **Performance Optimization:** System tuning and resource optimization strategies

Advanced Engineering Practices

- **Infrastructure as Code:** Terraform, CloudFormation, CDK, Pulumi expertise with production implementations
- **CI/CD Pipeline Development:** GitHub Actions, GitLab, Bamboo, Jenkins with custom workflow creation
- **Container Orchestration:** Kubernetes administration, Docker optimization, ECS management
- **Monitoring & Observability:** CloudWatch, custom metrics, alerting strategies, performance analysis

Leadership & Methodology

- **Technical Mentorship:** 70+ developers guided across multiple projects and technologies
- **Agile/DevOps Practices:** Scrum, Kanban, continuous integration/deployment, GitOps methodology
- **Cross-functional Collaboration:** QA, Product Management, Security, and Compliance team coordination
- **Risk Management:** Disaster recovery planning, security assessment, compliance validation

Technical Skill Categories

Experience

EPAM Systems

- **Lead architectural decisions** for 10+ concurrent projects including Foundation Console, Foundation Index, and WK-workspaces

- **Design serverless-first architectures** achieving **10x performance improvements** for WKL-ADT workloads through asynchronous Lambda migration
- **Architect multi-tenant systems** supporting B2B partner integrations with dynamic resource allocation and automated scaling
- **Manage 24+ production AWS accounts** and matching Azure environments with unified security, monitoring, and deployment frameworks
- **Implement cross-cloud disaster recovery** strategies with RPO of 5-15 minutes and RTO of 2-15 minutes
- **Optimize resource utilization** resulting in **30%+ cost reduction** across all managed environments
- **Guide 70+ developers** across global monorepository architecture supporting **20+ daily releases**
- **Mentor system engineers** on advanced AWS services, serverless patterns, and DevOps best practices
- **Conduct architectural reviews** and provide technical consultation for pre-sales POC development
- **Implement GitOps methodology** enabling seamless transitions from POC to MVP in less than 1 week
- **Develop custom automation frameworks** for release management across CloudFormation, SAM, CDK, and Terraform artifacts
- **Create advanced monitoring solutions** with integrated incident management and automated remediation

EPAM Systems

- **Architected complete serverless migration** from VM-based monolithic application to scalable Lambda-based microservices
- **Implemented atomic orchestration system** for Lambda functions via CloudFront, creating the most synchronous Lambda orchestration possible
- **Upgraded database infrastructure** from standalone MySQL to Aurora Serverless v2 with global replication readiness
- **Achieved zero-downtime migration** across all environments including production with 99.99% uptime maintained
- **Created system architecture** for Foundation Console workspace management supporting vector data processing modules
- **Developed asynchronous vectorization system** (Foundation Index) for tax and medical content with transition from keyword to vector search
- **Implemented one-click access solutions** without password requirements for enhanced user experience
- **Built Skills platform** with dedicated AWS account environment setup and deployment frameworks
- **Designed HUB2 containerization system** for Lambda functions, pioneering blue-green deployment for serverless environments
- **Integrated SAM deployments** into production pipelines for AT_DXG at Wolters Kluwer with comprehensive release management
- **Developed custom lightweight Filebeat** in pure Bash for log collection, agnostic to current

system state

- **Created cross-platform integration** between Bamboo and GitHub Actions for simultaneous CI/CD system operation

EPAM Systems

- **Architected enterprise release management platform** serving as foundation for Wolters Kluwer Beyond project
- **Integrated Serverless Application Repository** for automated release management with Artifactory team migrations
- **Implemented support for multiple artifact types** including CloudFormation, SAM, CDK, and Terraform stacks
- **Developed continuous deployment capabilities** for 20+ AWS and Azure environments
- **Created custom orchestration frameworks** managing both serverless and containerized workloads
- **Optimized infrastructure costs** through intelligent resource scheduling and serverless adoption strategies
- **Implemented advanced backup and disaster recovery** solutions with automated testing and validation
- **Designed multi-environment deployment strategies** with environment-specific configuration management
- **Integrated advanced security measures** into platform architecture, reducing vulnerabilities by 60%
- **Implemented compliance frameworks** aligning with industry security standards and regulatory requirements
- **Developed automated security scanning** and remediation processes for infrastructure code
- **Created security policy enforcement** through Infrastructure as Code validation

EPAM Systems

- **Eliminated manual click-ops operations** by implementing comprehensive Terraform automation across all systems
- **Built resilient CI/CD pipelines** in GitLab with self-healing deployment automation that operates independently
- **Migrated 40 Terraform stacks** across 3 environments to optimized Terraspace architecture in record 4-day timeframe
- **Created environment-agnostic deployment patterns** enabling consistent infrastructure across development, staging, and production
- **Developed DevOps proctoring system** for Terraform training, utilized across EPAM DevOps education programs
- **Created resource simulation system** using Terraform API and Bash logic for training environments
- **Implemented automatic assessment capabilities** without requiring actual AWS resource provisioning

- **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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Projects

Wolters Kluwer Digital Experience Group (WKL-DXG)

Description

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.

Technical Architecture

- **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

Results & Impact

- **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

EPM-RDEX Examiner Platform

Description

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

Technical Implementation

- **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

Results & Impact

- **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

OneML Machine Learning Platform

Description

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

Technical Solution

- **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

Results & Impact

- **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

Proprietary Framework Development

Foundation and Beyond Self-Platform Orchestration Framework

- **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

EPM-RDEX Lazy DevOps Framework

- **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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Education

Technical Education

Mechanical Engineering Background

- 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

Professional Development

Continuous Learning Commitment

- 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

Future Technical Development

Short-term Objectives (6-12 months)

- 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

Long-term Vision (1-3 years)

- 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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Certifications

AWS Certifications

AWS Certified Solutions Architect - Professional

- 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

AWS Certified Solutions Architect - Associate

- 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

AWS Cloud Quest: Solutions Architect

- 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

AWS Cloud Quest: Cloud Practitioner

- 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

Kubernetes & Container Technologies

CKA: Certified Kubernetes Administrator

- 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

HashiCorp Certifications

HashiCorp Certified: Terraform Associate

- 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

HashiCorp Certified: Vault Associate

- 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

Emerging Technologies

AI Literacy Program

- 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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Awards & Recognition

Professional Recognition

We Are Community: Top Contributor

- Recognition for exceptional community involvement and knowledge sharing

- Acknowledges significant contributions to developer community and technical expertise
- Awarded for consistent participation and valuable technical content

We Are Community: Top Speaker

- Recognition for excellence in technical presentations and knowledge sharing
- Acknowledges exceptional communication skills and technical expertise
- Awarded for high-quality presentations at community events

Driving Change and Innovations from Delivery Central

- Recognition for leadership in implementing innovative technical solutions
- Acknowledges significant contributions to technical process improvement
- Highlights impact on organizational efficiency and technical excellence

BLIS BU Recognition Star Team

- Team excellence recognition for outstanding project delivery
- Acknowledges exceptional collaboration and technical implementation
- Highlights significant business impact and client satisfaction

Patent Portfolio

Dynamic Properties of Self-Propelled All-Purpose Power Unit with a Hydromechanical Transmission of Two-Line Type

- Innovative mechanical engineering design for power transmission systems
- Technical advancement in vehicle propulsion efficiency

A Self-Propelled Grain Harvester Running on Gaseous Fuel

- Environmentally-friendly agricultural equipment innovation
- Advancement in sustainable farm machinery technology

Grain Harvester Y №4475

- Agricultural machinery innovation with improved harvesting efficiency
- Technical advancement in crop collection methodology

A Self-Propelled Grain Harvester with a Power Unit Running on Gaseous Fuel

- Eco-friendly alternative fuel implementation in agricultural machinery
- Technical advancement in sustainable farming equipment

Device for Collecting Liquid and Monitoring its Level in a Tank

- Precision fluid monitoring system innovation
- Technical advancement in liquid management technology

Friction Clutch

- Mechanical engineering innovation for power transmission systems
- Technical advancement in vehicle component efficiency

Publications

Technical Articles & Documentation

Advanced Cloud Architecture Patterns

- Comprehensive guide to implementing serverless and microservices architectures in enterprise environments
- Exploration of cost optimization strategies and performance enhancements for cloud-native applications
- Practical implementation examples with AWS services and infrastructure as code approaches

Internal Technical Documentation

- 50+ comprehensive guides on serverless architecture implementation and best practices
- Detailed technical documentation for custom frameworks and automation systems
- Knowledge base articles on AWS services optimization and advanced configuration patterns

Patent Portfolio

Engineering Systems Patents

- **Patent:** DYNAMIC PROPERTIES OF SELF-PROPELLED ALL-PURPOSE POWER UNIT WITH A HYDROMECHANICAL TRANSMISSION OF TWO-LINE TYPE
- **Patent:** A self-propelled grain harvester running on gaseous fuel. 190376 U1
- **Patent:** Grain harvester Y №4475
- **Patent:** A self-propelled grain harvester with a power unit running on gaseous fuel. U 190375 U1
- **Patent:** Device for collecting liquid and monitoring its level in a tank BY U 10162
- **Patent:** Friction clutch 20382 C2 F 16D 13/00

Open Source Projects

LambdaTerminal

- Custom terminal interface for AWS Lambda management and deployment
- Streamlined developer experience for serverless function operations
- Integrations with AWS CLI and CloudWatch for enhanced visibility

Terraform Proctor System

- Educational platform for Infrastructure as Code training and assessment
- Automated validation of Terraform configurations without resource provisioning
- Dynamic test assignment system with Git-based configuration updates

Custom Filebeat Implementation

- Lightweight log collection system implemented in pure Bash
- System-state agnostic operation for reliable log aggregation
- Minimal footprint alternative to traditional logging agents

Community Leadership & Speaking

CloudSquad GYM Workshop Series

- Monthly technical presentations to 60-100 cloud professionals
- Workshop: Custom Load Balancer & Serverless Orchestration in AWS
- Workshop: Understanding AWS Lambda Internals deep-dive session
- Workshop: Advanced AWS DMS implementation strategies

AWS User Group Contributions

- Regular speaker at local AWS user group events
- Technical content contributor focusing on serverless architecture
- Active participant in community knowledge sharing initiatives

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