German Kolenov

Cloud Architect (AWS) · Cloud Modernization · Software Architecture

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SUMMARY

The architect companies bring in when a system is too important to get wrong. Twenty years as application architect for the core engines of a document platform producing millions of documents a year, followed by moving that platform to a SaaS cloud solution on AWS. Today leads Legacy Parity, a practice that moves older applications to AWS step by step and proves with side-by-side tests that the new version does exactly what the old one did. PhD in Applied Mathematics.

CORE SKILLS

Cloud and AWS	Cloud architecture, serverless (Lambda, Step Functions, API Gateway), containers, Aurora and RDS, S3, CloudFront, IAM
Infrastructure and delivery	Infrastructure as code (AWS CDK, Terraform), Docker, GitHub Actions, GitLab CI/CD, automated testing
Modernization	Legacy and mainframe modernization, migration planning, data migration, side-by-side equivalence testing
Languages	Java, C++, Python, C# and .NET, SQL, COBOL
Security	PKI and digital signatures, encryption, least-privilege access

EXPERIENCE

Principal Cloud Architect, Legacy Parity · Gamma Quest, Inc. — 2026 – present

- Lead Gamma Quest's cloud modernization practice: older applications moved to AWS one piece at a time, each piece proven with automated side-by-side tests to behave exactly like the original.
- Public case study: CardDemo, a mainframe credit card application that AWS publishes for testing modernization tools, rewritten from COBOL to Java and shown to produce the same results as the original. The tests also turned up business rules in the original code worth a second look. A second demo takes an older Java trading application to current Java with the same proof.
- Rebuilt Gamma Quest's own project and time tracker on modern .NET and PostgreSQL on AWS, checked page by page against the old system.

Co-founder · Gamma Quest, Inc. — 2005 – present

- Software development firm focused on legacy modernization, PDF document processing and cloud application engineering.

Technology Architect and Principal Software Engineer · Precisely — 2021 – 2026

- Part of a small architecture team that moved the CEDAR platform to a SaaS cloud solution on AWS, lowering infrastructure cost and making customer onboarding faster.
- Led the design, architecture and proof of concept for modernizing a multiplatform COBOL system of close to a million lines. The cloud proof of concept produced the same results as the original.
- Built cloud services in Java, Python and C++, packaged with Docker and deployed with Terraform and GitLab pipelines.

Senior Application Architect · CEDAR Document Technologies — 2001 – 2021

- Application architect responsible for the core transformation and composition engines of a hosted platform producing customer documents for insurers, lenders and wealth managers: millions of documents a year, on Windows, Linux and Solaris.
- Designed the digital signing and verification that protects the documents' integrity.
- Owned the architecture for about a dozen major releases and led a team of developers for part of that time. The platform was acquired by Precisely in 2021.

Earlier experience · **Netcertainty:** built the digital signing part of a secure-transactions platform. **PROLING, VP of Software Engineering:** Ukrainian language proofing tools for Microsoft Office, under contract with Microsoft. **Research engineer:** distributed and parallel optimization, about 20 published works.

EDUCATION

PhD in Applied Mathematics · distributed and parallel optimization