The New Frontier: RAD, DevSecOps, and the Automation of Application Development

Ashwini Kumar Rath
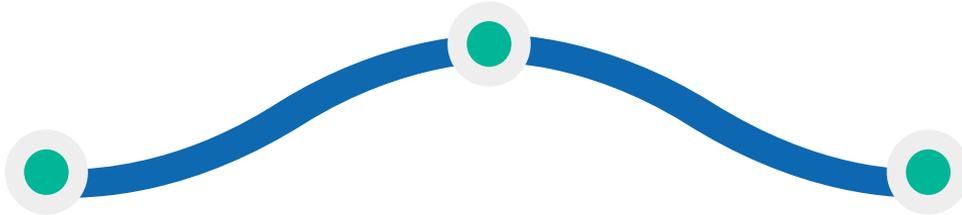
Director and CEO

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The Evolving Landscape of Software Engineering

Accelerating Change
- From months to minutes
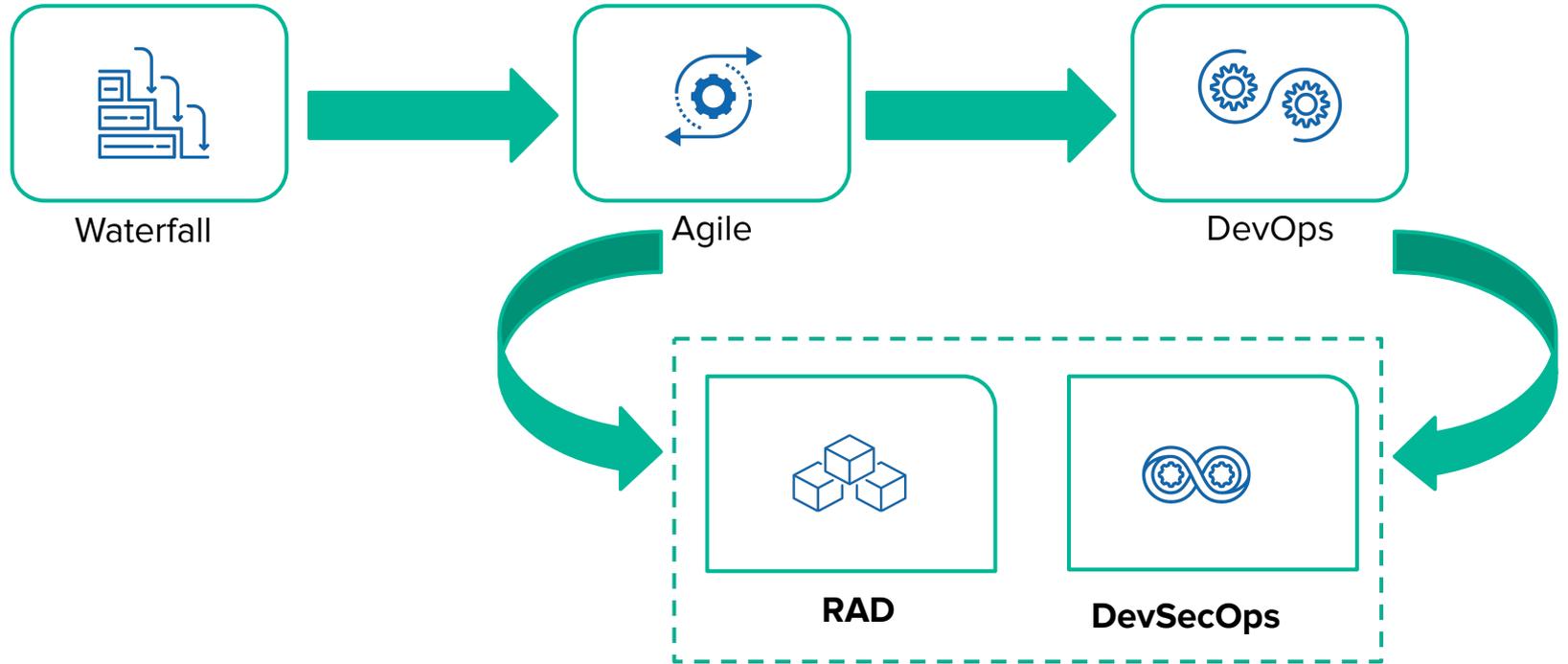- User-centric designs and MVPs
- Quality at speed

Software Development Methodologies
- The Waterfall Model
- Agile Manifesto Emergence
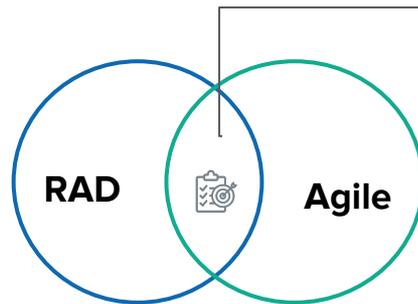- The Rise of DevOps and DevSecOps

New Horizons with RAD and DevSecOps

The Evolving Landscape of Software Engineering

Waterfall

Agile

DevOps

RAD

DevSecOps

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Rapid Application Development (RAD)

Quick Prototyping, Iterative User Feedback, Modular Programming

Advantages of Embracing RAD
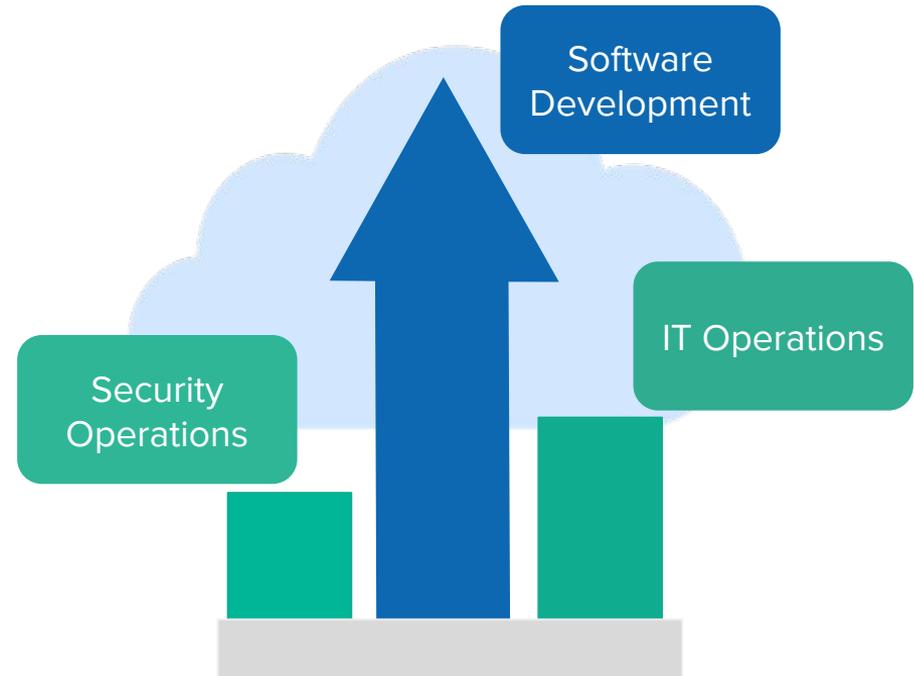
Speed to Market | Enhanced Flexibility | Customer-Centric

RAD | Agile

- Complementary Techniques,
- Streamlined Processes,
- A Unified Goal

DevSecOps: Embedding Security in Development

- Automation
- Lean
- Security - 'Shift Left'
- Measurement
- Ecosystem Independence
- Cultural and Technological Transformation

Revolutionizing Development with Automation

Empowering RAD and DevSecOps with Automation
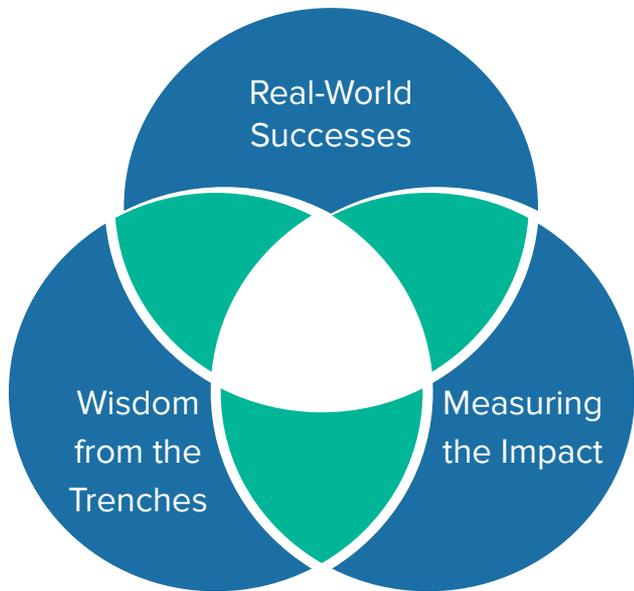
- Seamless Integration
- End-to-End Efficiency

The Triple Advantage of Automation

- CI/CD pipelines, code scanning tools, automated deployment, and monitoring solutions.
- Leveraging AI and cloud-native technologies.

Empowering RAD and DevSecOps with Automation

- Standardized approach to development, testing, and deployment.
- Reducing manual overhead speeds up the entire development lifecycle.
- Minimize the risk of human-induced errors, leading to more reliable outputs.

Case Studies: RAD and DevSecOps in Harmony

Real-World
Successes

Wisdom
from the
Trenches

Measuring
the Impact

Real-World Successes:
- A Tale of Two Methodologies
- Diverse Industries, Common Triumphs (e.g., fintech, healthcare, SaaS)

Measuring the Impact:
- Efficiency Gains
- Security Enhancements

Wisdom from the Trenches:
- Lessons Learned
- Key Takeaways: Cross-functional collaboration, early and frequent security integration

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Looking Ahead: Automation as the Future Standard

Forecasting the Automated Horizon:
- Beyond Trends
- Predictive Insights

Standardization of Automation:
- An Industry Standard
- Universal Application

Academic Pioneers of Automation:
- Curriculum Evolution
- Skillset Transformation

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