Michael Estes

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Current Roles

DTCC
Executive Director
CI-CD Development Group

NJ Institute of Technology (NJIT)
Adjunct Professor of
Computer Science, Teaching
Java and Object Oriented
Programming

Education

1992
Master of Science
Computer Science
Polytechnic University
(now NYU-Poly)

Concentrations in
Operating Systems and
Artificial Intelligence

1984
Bachelor of Science
Computer Science
Hofstra University
Minor in Philosophy

V3.6

A seasoned global software engineering and IT product professional. Focused realizing software solutions that drive business results.

Experienced in mission critical FinSrv IT, application development, Agile delivery, security middleware, Identity Management, Continuous Integration and Delivery Automaton, Public Cloud transformation & design, application & data architectures, security, auditing, and people management.

Centered on managing global engineering teams, creating and leading high performance software development teams, and realizing products in a digital, API and cloud centered direction. An innovative leader, embracing the software driven future of customer centered IT.

Passionate about the future of IT, "everything as software" and fostering a culture of innovation that challenges the status quo. Solving complex problems with an innovation first mindset, Influencing & collaborating with stakeholders & leadership. Empowering/growing others is a fundamental.

Leading is building high performance teams, engineering and realizing solutions

- Led application development teams focus on delivering self-service CI/CD solutions serving 1000+ development pipelines. Enhance developer agility while enhancing security compliance and posture.
- Led application Development & Infra teams focused on customer delivery. Experienced in designing and delivering customer focused software and services targeting business consumers and internal (IT4IT) end users.
- Led the delivery of compliance/regulatory driven financial services software solutions including cloud centered DevSecOps, BusApps, middleware, security controls, Identity and Access Management, CI/CD Implementations, and Public Cloud Automation.
- Led (since 2012) Cloud transformation and modernization projects for mission critical FinSrv products. Spanning the transformation arc from "cloud – no way" to "cloud as IT strategy". Broad expertise spanning all tiers of the technology stack. Brought efficiencies and amplified developer productivity across the Org by delivering Self-Service tools. Strong relationships with AWS.

Some recent outcomes
- Automated CI/CD Self Service across 600+ Pipelines
- Re-imagined Application Development Environments through CI/CD JIT Self Service for over 250 applications and 750+ developers
- Delivered AWS cloud meeting stringent FinSrv regulatory needs. Expanded cloud adoption to include ultra high resiliency Apps. Working closely with AWS Sr. staff, established the ability to run critical tier workload in the AWS cloud (now part of AWS standard offerings)
- Establish low cost, high productivity Cloud development capabilities. Eliminated the cost barrier of exploring new product ideas. Delivered secure self service Cloud to development teams.
- Transformed leading FinSrv Org from a No-Cloud to a Cloud Org
- Cloud certified over 300 staff
- Grew test coverage of critical Apps by 10 fold using low cost cloud. Enabled scores of cloud App migrations and new cloud development.
- Delivered custom cloud security solution scanning all cloud resources. Realized stringent Sec/Reg/compliance controls in the public cloud.

Professional Background

Leader/Engineer/Innovator/Executive with 30+ years of Information Technology experience across diverse sectors such as financial services, item processing, brokerage, commercial/retail banking, manufacturing, education, insurance, health care, utilities, transportation, pharmaceutical and IT Consulting. Uniquely combining engineering discipline, roll up sleeves/hands-on delivery and innovation with a constant focus on business value, team engagement, risk management and customer satisfaction.

Execution and Delivery – Hands-on experience architecting, developing, integrating, and delivering enterprise class solutions/products/services across a wide range of business sectors and end user organizations. 25+ years of leading, and developing high performance IT organizations (25-200 FTEs).

Communicator/Educator – Excellent communication, presentation and change leadership skills paired with deep skills in AppDev & Infra.

Innovation and Execution Agent – Influencer of change with disruptive technologies that provide demonstrated value. Not afraid to challenge norms, introduce and create new ways of thinking that realize business value.

Technology – Early adopter of FinSrv public cloud (IaaS, PaaS), infrastructure as software/automation, Amazon Web Services, DevSecOps Cloud, FinSrv information security solution architecture and implementations, authentication/entitlement, application development frameworks and APIs, enterprise architecture, legacy systems, real-time transactions, messaging and metrics

Specialties – Delivering, Cloud (IaaS/PaaS), AWS, Cloud agility and cost reduction, DevSecOps Cloud, Agile AppDev and infrastructure automation, cloud in a regulated environment, change leadership, IT strategy, people development, IT Architecture, IT service delivery and service support, process Implementation and IT compliance, budget and business planning, operating model design

Work Experienced

Depository Trust and Clearing Corp (DTCC)

2011 – Present	Executive Director, IT (Software Development & Cloud Transformation Roles)

Led Software Development area focused on transformation DTCC application development processes into CI/CD focused automated processes through a Self-Service Approach. Enterprise DevSecOps designs, realizes automated/self-service CI/CD solutions and transforms the organization with them. Working with 40+ development teams across 1000+ pipelines the automation delivered touch all aspects of the SILC process while realizing key security controls and metrics reporting through fully automated/self service software solutions.

Successfully delivered AWS Cloud Information Technology to the financial services industry.

Since 2012, led an enterprise IT effort to bring Amazon Web Services cloud computing to DTCC with a focus on creating new business options, cost reduction, greater quality and product agility. Through well managed innovation, delivery, strong partnerships, risk taking and advocacy, the enterprise now makes extensive use of AWS across production, test, and development environments.

While leading DTCC's "cloud journey" realized change by combining my credibility as a hands-on engineer, my leadership and communication skills with an early recognition that change is as much about technology as it is about hearts/minds. Strong partnerships were formed among governance, regulators, technology, business, and control functions. Sober, incremental steps built value on top of value. Organizational change is extraordinary. Today cloud is a fundamental part of business and IT strategy,

Proven production track record implementing and operationalizing Amazon Web Services in an enterprise environment. Developed deep knowledge of the AWS platform, its many services and dimensions of scalability including but not limited to: S3, VPC, EC2, Lambda, IAM, Cloud Security, EBS, ELB, Elastic Beanstalk, SQS, SES, Cloud Formation, Queuing Platforms, CloudWatch/Trail, RedShift, EMR, Direct Connect, and many other AWS services.

Work Experienced (Cont.)

Depository Trust and Clearing Corp (DTCC)

2005 – 2011	Vice President, DTCC Distributed System Development Group

Led Application Development and maintenance group responsible for staff of 50 developers, architects and GUI designers.
Migrated multiple business critical applications from Mainframe WebSphere (4&5) to Distributed (Unix/Solaris) IBM WebSphere 6 Application Servers, TAM, WebSeal, LDAP.
Migrated business critical applications from Weblogic to IBM WebSphere 6 AppServers
Architected, designed, and implemented various AppDev projects utilizing CMMI methodology.
Designed and implemented DTCC Common Web Framework utilized by over 400 applications.
Designed and implemented the DTCC customer Portal.
The portal aggregated over 600 product functions and delivered unified end user experience.
Ported mainframe Settlement and Clearing Apps to Unix.
Worked closely with architecture and infrastructure groups
Leader of the Developer Desktop Standards Committee, Oversaw the recommendation & realization of all DevTools used by 550+ developers.

Cybershift Inc.

2001 – 2005	Vice President of Development and Technology

CTO leading AppDev of enterprise class software for $25MM revenue organization
Managed IT staff of 75 FTEs + 40 person offshore development team. Architected/Realized World Class Employee Relationship Management System (Time and Attendance, Scheduling, Forecasting, Self-Service, and Content Mgmt.) System in use by Fortune 500 customers.
Replaced entire Cybershift product set within an 18 month development cycle. Product set included 50+ web applications interfacing with custom developed rules engine, and standards based workflow services. Deployed the new system into 24 client environments (mixture of new and replacement systems).

Jemtech Solutions Inc

1994 – 2001	Principal Partner, Vice President of Technology

Founded in August 1994, Jemtech achieved its initial success as a systems integrator for knowledge-content management solutions.   Successful $500K angel funding, $5M Venture Capital funding round, Jemtech was acquired at a profit to shareholders
Managed staff of 25 IT staff and professional services engineers. Architect and Implemented JEMNET™ an Enterprise class/web centric document content management solution used by various industry verticals including banking, financial services, manufacturing, education, insurance, health care, utilities, and pharmaceutical.

Instinet

1992 – 1994	Director of Application Development

Image Business Systems

1989 – 1992	Director of Application Development and Product Services

Reuters

1988 – 1989	Software Engineer

CMC Electronics

1985 – 1988	Software Engineer

A Selection of Additional Cloud Accomplishments

Production Systems

User Facing Business Apps on AWS	Highly Redundant Direct Cloud Connect, Data Center Extension
Real Time Public Data, serving > 1.7 billion customer hits/month since 2012	Monitoring, Alerting, Service Management Integration
Risk Analysis engines leveraging scalable public cloud since 2013	Standardize Linux and Windows compute/storage in cloud
Multi Peta Byte scale secure data archive in public cloud since 2014	All systems fully control compliant in a highly regulated environment
Federated Identity, Credential Management, AD Integration	Full integration with enterprise Agile and DevSecOps practices
Enterprise Virtual Desktop	Encrypted storage and key management solutions
External Customer Notification Systems	Tagging and Charge-back, Finance integration
Post Trade Management	Automated Service Provisioning, Image factories, Patching, Updates

Non Production (Test, PoC, Development)

500+ Instance test environments supporting trade repository test	Self Service, template based provisioning portals and engines
600 core/100TB Hadoop Clusters	Automated Service Provisioning
75+ Low cost PoC run in Cloud	Image/AMI factories, Patching, Updates and Support
Multi node BlockChain development and test environments	Fully automated IaaS/PaaS provisioning supporting AppDev
Scalable Risk/Quant analysis labs systems in cloud	

Governance/Advocacy/Other

Enterprise Cloud Training Program	Established Cloud Hosting Evaluation Council
New Cloud Operating Modeling	Member Architecture Steering Committee and
Proposal assessment job aids and budgeting tools	Member Infrastructure Security Council
Cloud value selling across all business lines	Dialog/Advocacy/Interface with Audit and Control Functions

Current Tech Stack

Programming Languages
Java, Groovy, Pythons, C

IaC Platforms
Terraform, Cloudformation

UI and Web Technologies
Angular, JQuery, JavaScript, Bootstrap, REST, AJAX, HTML, XML, JSON, CSS, HTML, XML

Design
Design for Resiliency/Recoverability
REST, JSON, SWAGGER, APIs, Messaging
Object Oriented Design and Reuse Patterns
Transactional and High Resiliency Designs
Micro Services, REST, JSON, SWAGGER, APIs

Scripting and Tools
Unix Shell, Perl, Python, Windows Batch, Vim, Gawk, sed

Methodology
Agile

Dev/Ops, CI/CD, Tools and Methods
Jenkins, Maven, Nexus, Bitbucket, Cobertura, Git, Jira, Fortify Static Code Analysis

RDBMS and Messaging Platforms
Oracle, Aurora, Postgres, MySQL, SQL, PL/SQL, MQ, Rabbit-MQ, Kafka

Web/App Servers and Application Containers: (one or more)
Tomcat, JBOSS, WebSphere,Apache HTTP Server

Java Frameworks
Spring, Spring Boot, Spring JPA

Testing Frameworks
JUNIT, Mockito, Karma, JaCoCo, Cobertura

Platform, Operating Systems and Networking
Unix
Docker, Kubernetes

AWS
EC2, Lambda, S3, Route 53, Aurora PostgreSQL, DynamoDB, RDS, KMS,ELB, SQS, SNS, Glacier
Terraform on AWS, Cloud Formation, Step Functions, XRay, CloudWatch, Cloud Trail, and RedShift

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