

Mark Morris

Hands-on Leader for Advanced Technical Architecture & Software Development—Blockchain (Fabric, Ethereum, Bitcoin), Cryptocurrency (Bitcoin, Ether), Decentralized Distributed Systems, Microservices, Cloud, Security, BlueMix, AWS, Azure, Google. Java, JavaScript, NodeJS, Progressive Web Applications, LAMP, MEAN, Serverless, Lambda, GO, C/C++, C#, Python, Machine Learning, SOA, JEE, .NET, WebDriverIO, Mule, Apache, Linux, Enterprise Architecture, Spring, UML, Agile Scrum, Systems Integration, SAML, IIoT, Visualization, D3, Team Building, Culture Shaping, Legacy-to-Cloud, Business Process Automation, Custom APIs, Big Data, Streams, eCommerce, Real-time Reporting, Performance, Mobility

mark.morris@tarantulatechnology.com

Summary

Skilled in: Blockchain, AI / ML, IIoT, Crypto-economics, Cloud Computing, Cloud Legacy Integration, eCommerce, Amazon Web Services, Azure, Internet Security, Responsive Web Design, JEE, .NET, Architecture, Design, Development, Deployment, Integration, Performance Optimization, Real-time monitoring, Custom Automation, Lambda, API Gateways, Streaming Data, Serverless Architectures, Open Source, Product Creation, and Innovation. Mark has years of experience in Security, Systems, Cloud, Internet, Intranet, and Enterprise Systems and Software Development, and Consulting. Mark is a highly sought after expert in blockchain, software systems engineering, legacy migration and re-engineering to Cloud, Internet, and Intranet SOA technology and Partner integration. His broad and deep experiential knowledge and real-world experience in consistently reducing operating cost and improving revenue by performing a variety of activities such as executing creative e-business systems integration, complex services federation, custom native SAML SSO solutions, and development of custom secure RESTful and SOAP interfaces affords clients strategic opportunities large consulting firms cannot compete with. Creating innovative solutions for clients almost always requires Mark to develop creative processes and productivity boosting tools and processes for clients to ensure successful outcomes that exceed expectations.

References: Mark has professional references, available upon serious offers, who will offer positive assertions attesting to Mark's capabilities and benefits he brings to clients.

Sample of past clients: LCRA, Epicor, American Achievement Corp, IBM, Sun Microsystems, InterContinental Hotels Group (IHG), Gap Inc., Sprint, FDIC, Texas Department of Human Services, Blue Cross Blue Shield Assoc., CSX Intermodal, American Airlines, Federated Systems Group, Cap Gemini Inc., EDS Federal, COMCAST, Zions National Bank, Depository Trust & Clearing Corp., Federal Reserve Information Technology, United States Postal Service, Primerica Financial Services Inc., Nationwide Insurance Company, HP, Energen, Manheim Auctions, Perficient, Retail Decisions, American Modern Insurance Inc., Andersen Consulting (Accenture), Foremost Insurance Company Inc., Longaberger Company, Transarc (IBM), Intermedia Communications, MCI, Systems Management Inc., Huntington Bank

Experience

CTO / Tarantula Technology, Inc

January 2007 - Present

Now open for new engagements. Currently working on blockchain technology and crypto-economics.

Blockchain experience:

Over the last 3 years, on a monthly basis, I have designed, developed, and demonstrated several small prototypes and simple proof-of-concepts for discussion, technical demonstration, and education, as well as specific blockchain technical presentations covering blockchain technical topics and advisories for my 1600+ Austin Blockchain Technology meetup members, and 500+ "Official" Hyperledger Austin meetup members--hosted monthly at the premier entrepreneurial center Capital Factory.

For the last year and a half I have provided blockchain and tokenization consulting services to several business clients on transforming their legacy business models or implementing new blockchain business models in Healthcare, Insurance, Energy, Finance and Supply Chain.

I cover all of the important blockchains and primarily focus on: Hyperledger (Fabric, Sawtooth, Burrow, Composer), Corda, Quorum, Ethereum, and Bitcoin; smart contracts using Fabric Chaincode, and Ethereum Solidity; I focus on the technology that makes these systems tick, and present opportunities and guidance on the future and immediate use cases in the Enterprise and Society.

I am the blockchain thought leader for the Austin Mobility Roundtable, a partnership between Capital Factory and Daimler Mercedes Benz, an invite only group dedicated to mobility innovation and application to improve Austin mobility and provide cross-pollination of ideas and initiatives.

In addition to the above blockchain activities, I am developing blockchain breakthrough technology that will offer a blockchain-based kernel for creating IP-invisible cryptographically secured blockchain networks bound together at Layer 3 and 4 of the Internet stack.

Chief Blockchain Developer at CAREiQ

March 2018 – May 2018 (3 months)

Designing and developing Healthcare solutions, infusing Artificial Intelligence, Augmented Reality, IoT, Blockchain, Token Economies, Cloud / Edge, and Wearables.

Principal Software Architect, Innovation Lab, IIoT, AI, AR & Blockchain at LCRA

October 2017 - March 2018 (6 months)

Reporting directly to the Chief Administrator Officer, I was tasked to design and develop a revolutionary platform for Emergency Management for Flood Alerts. I designed an architecture incorporating IIoT, AI, AR, Cloud, and Blockchain technology architected for Containers, Microservices, Messaging, Complex Event Processing, Streaming, and Batch. I also performed R&D for the Chief Administrator Officer for assessing the viability of a PoC for an Augmented Reality and Blockchain application for Asset Management.

Senior SOA Architect and Software Engineer / Epicor

July 2012 - June 2017 (4 years 11 months)

Designing and developing several system software integrations for Epicor's Titan Project utilizing Full Stack, Java, C#, ASP.NET, jQuery, JavaScript, Web Services and RESTful APIs, SQL Server Integration Server, SQL Server, Oracle eBusiness Suite, PL/SQL, Complex Stored Procedures, Java Concurrent Manager, Salesforce Web Services, NetSuite's OpenAir Web Services, Softrax Contracts, Epicor E9 UI Customizations, Epicor E9 Service Connector, Epicor E9 Business Objects .NET API, XML/XPATH, and SOAP.

SOA eCommerce Architect / American Achievement Corporation

November 2009 - November 2011 (2 years)

Successfully completed a 2 year project as the SOA / eCommerce Architect transforming American Achievement Corporation, a 100 year old \$300MM Austin company into a state-of-the-art eCommerce company hosting 120,000+ eCommerce sites. Key technologies: Magento, Amazon Cloud (EC2, RDS, SES, ELB), PayPal Web Services and Java legacy Integration into an AS/400, Java, ServiceMix, Apache, Selenium.

Technical Consultant & Software Development Contractor / Tarantula Technology, Inc

March 2009 - October 2009 (7 months)

Architected, designed, and developed custom communications software for peer-to-peer communications and data storage with a device driver for continuous

backup and virtual space management eliminating the need to perform manual backups and restores.

Lead Web 2.0 SOA GUI Architect, Lead Developer & Mentor / Sun Microsystems

November 2008 - February 2009 (4 months)

Architected, designed, mentored, and led a Sun Microsystems' development team tasked with creating a next generation SOA / Web 2.0 GUI application and middleware caching, proxy, security, and web services infrastructure for point-of-origin Electronic Medical Records (EMR) access among participating partners (health care providers, clinicians, labs, systems, patients, etc.) in the state of Colorado. Mark's architecture incorporated state-of-the-art technology, including Web 2.0 (Dojo), Web Services, and a JCAPS 5.1.3 SOA backend.

Featured Architect & Speaker at IBM / WebSphere Portal Technical Conference

October 2007 - October 2007 (1 month)

- • IBM WebSphere Portal V6 Security and SOA Security Integration Patterns
- • IBM Tivoli Access Manager V6 security integration and single sign-on SOA capabilities
- • SOA SAML-based Single Sign-On across the Internet
- • Multi-factor & Step-up Authentication Extensions including mobile and biometric interfaces
- • Self-service password recovery and reset from ground up for lower administration costs and resources
- • User & Group registration and management in a portal environment for maximizing delegation patterns

Lead Consulting Architect / Sun Microsystems

April 2007 - August 2007 (5 months)

Architected, designed, mentored, and led the development of COMCAST's new service infrastructure for delivering digital voice, data, and video for the next generation of COMCAST's digital cable services.

Senior Tivoli Security Architect & Developer / IBM

November 2005 - April 2007 (1 year 5 months)

Developed Gap Inc.'s custom Tivoli step-up security software, used by all 100k+ Gap Inc. associates, worldwide; Developed Gap's custom WebSphere SAML Web single sign-on software, used by Gap management and select partners; Developed the SAML single sign-on baseline code for Manheim Auctions (Cox Enterprises, Inc.) to use with their 40k+ partners;

Provided technical consulting services to:

- • Federated Systems Group
- • Energen/Alabama Gas Corporation (Alagasco), the largest distributor

- of natural gas in Alabama
- Group Health Incorporated, the largest not-for-profit health insurance company in New York State.

Sr. J2EE Architect / Sun Microsystems

February 2005 - November 2005 (10 months)

Architected, designed, mentored, and led the development of InterContinental Hotels Group's new integrated worldwide call center reservation J2EE mid-tier system.

Senior WebSphere Architect / Sun Microsystems

January 2005 - February 2005 (2 months)

Analyzed the Blue Cross Blue Shield Association's Enterprise WebSphere Infrastructure and proposed strategies and tactics for reducing cost, improving operations, and defining best practices for consolidation, business integration, WebSphere deployment, business applications integration, access to legacy systems, and robust member access resulting in a potential annual savings of over \$1,000,000.

Chief Systems Architect / 1st Virtual Services, Inc

March 2004 - January 2005 (10 months)

Linux R&D, JNI, J2ME, JXTA, Guttella for P2P J2EE services, clusters using P2P technology over wireless J2ME, Linux Kernel customization for security and clustering, JXTA/GLOBUS API implementations and maturity level for Linux Grids, hardening of Linux.

- Designed a custom JXTA implementation that incorporated SAML for secure messaging, SSO
- Authentication, and authorization of shared services and group management on a P2P network utilizing J2ME clients performing cluster feedback.
- Built custom Linux distribution for Enterprise Application Clusters running JBoss / Glassfish, MySQL/Berkley DB, and various Open Source packages.
- Built vertical Linux-based solution for Network and Application intelligent firewall, proxy smart cache, enterprise distributed secure message bus, XML/XSLT-based ETL processor, ID Access management server, and Enterprise event/notification solution.

Sr. J2EE Oversight Architect / Sun Microsystems

September 2003 - March 2004 (6 months)

Acted as J2EE technical liaison, removing all the technical smoke and mirrors for American Airlines engineering team, while TIBCO and IBM conducted a POC (bake-off) to win the American Airlines contract for re-engineering the entire enterprise operations of American Airlines to a SOA low-latency real-time messaging architecture.

IBM WebSphere Architect / State of Texas Health and Human Services

January 2002 - August 2003 (1 year 7 months)

Designed, mentored and lead development team refactoring WAFER application from PowerBuilder to J2EE; Application was nominated into the **2003 States CIO Awards** competition by the State of Texas in the category Best Government to Business Application Design and Architecture; Application manages 4700+ Long Term Care Facilities in Texas.

Education

Nova Southeastern University

Computer Science

Activities and Societies: None

The Ohio State University

Computer Science

Activities and Societies: N/A