# Samuel Rauch

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## Experienced IT Director ● AWS Solutions Architect ● Certified Blockchain Professional

20+ years of IT experience delivering cost-effective, technical solutions to propel organizations into continued growth with a unique ability to bridge the technical and non-technical audience. Results-focused and skilled at delivering powerful outcomes while sustaining thought leadership and industry trend knowledge.

## PROFESSIONAL EXPERIENCE

**Director of Development and Blockchain Solutions   | SharedLABS, Inc. | February 2018-Present**
- Directing all operational aspects of several offshore software application development teams on multiple, diverse projects. Responsible for clear, effective and timely internal and external communications, including creating statements of work, proposals, project plans, budgets, resources, staff and schedules.
- Project lead for two cross-platform (web, iOS, Android, Node.js, React Native) software products introducing distributed ledger and blockchain technologies, public and private respectively, into mature industries to forge next-generation capabilities and increase market value.
- Project lead leveraging multi-organization, channel and node Hyperledger Fabric architecture to build a blockchain-based network and communications platform.  Responsible for all aspects of delivering on the product functional roadmap and vision.
- Lead Architect for an Ethereum-based protocol providing chain of provenance and event-driven functionality for digitized assets via a smart contract.
- Lead Architect for a decentralized, cloud-based, next-generation storage network, powered by distributed ledger consensus.
- Directing development of multiple independent software application projects leveraging cloud-based infrastructure and emerging technologies in mobile (iOS, Android, PWA) and web-based (Node.js, React Native, multiple JavaScript frameworks) development environments in a variety of industry verticals, including but not exhaustive: telemedicine, data science, ecommerce, digital signage and software-based load balancing systems.
- Experience developing POCs in Hyperledger Fabric, Ethereum, Bitcoin, cryptocurrency market making stacks and R3 Corda.

**Owner | SSR Technologies, LLC | 2017-Present**
- Delivered and augmenting RESTful API-based solutions for several clients in the healthcare industry.
- Implementing and supporting multiple data consolidation and process automation projects for multiple clients.
- Founded the local Blockchain/Cryptocurrency Meetup group.
- Blockchain consultant for startup initiatives on the AWS Managed Blockchain Service, Hyperledger and the Microsoft Azure Blockchain Service.

**Director of Operations and Technology | Option Research and Technology Services, LLC | 2002-2017**
- Co-Founded and directed all technological aspects of the product life cycle including data and metrics to institutional investors and research platforms.
- Delivered proprietary trading data and metrics, while ensuring business continuity in a dynamic live market environment for clients including The Chicago Board Options Exchange, NASDAQ, Wells Fargo, TD Bank and Interactive Brokers.
- Reduced operating expenses 25% by introducing/leading the transition to virtualization utilizing VMWare ESXi, clustering with Linux KVM technologies and AWS cloud technologies for redundancy, leverage and the centralization of security practices.
- Maximized a start-up budget to manage effective technology delivery including profitable vendor negotiations.
- Grew customer base with unique, dynamic data-driven products including equity dividend and equity earnings forecasting and employing financial forecasting methods.
- Designed the organization's primary data model.
- Implemented internal MySQL databases for maximum efficiency in creating and delivering data-driven products.
- Led several teams to drive technical operations employing Agile software release management, including strategic planning, DevOps and maintaining system documentation.
- Spearheaded new initiatives quickly, and assessed requirements, assembled effective teams and forged technical integrations.
- Directed and produced software to manage, monitor and complete business-critical tasks.

**PREVIOUS WORK HISTORY: Market Maker/Technology Manager | Changes, LLC, 1999-2002**

## EDUCATION, CERTIFICATIONS & AFFILIATIONS

**Bachelor of Science,** University of Florida
**Certifications,** Certified Blockchain Professional | MySQL Implementation and Administration |Local Area Networks (LAN) Certification, DePaul University
**Author,** *Volatility Trading Demystified for Retail Investors, Bitcoin Investing Simplified for Retail Investors: A Simple, Effective Alternative to Owning Bitcoin Using Conventional Investing Methods*
**Founder**, *Blockchain Professionals and Cryptocurrency Enthusiasts* Professional Networking Group
**Member**, Linux Foundation, Hyperledger Project

## TECHNICAL APTITUDE

Blockchain stack, smart contracts, Dapp design and protocol fundamentals, cryptography fundamentals, Agile project methodologies and tools including Jira, Trello, Smartsheets, Gantt Project, Excel, DevOps fundamentals, CI/CD fundamentals, database systems, RESTful APIS, security best practices, High Availability Clustering, facilitating critical migrations, virtualization, cloud and hybrid cloud, infrastructure design - primarily AWS, VMWare ESXi, Microsoft Hyper-V Server, Windows, Unix (BSD), Linux and OS X; Programming Languages and Standards: Solidity, Node.js, C#, VB.net, PHP, T-SQL, Object Pascal, VBA, EDI X12 837