### **Matthew Connley**

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# Principal Engineer | Architect | Technology Leader & Innovator

Full stack solutions engineer with a passion for problem solving and creating efficiencies in technology products and processes. Broad experience and deep expertise in software and infrastructure engineering. Builds scalable, business-critical, and resilient high-performance solutions in tandem with lasting professional relationships. Recognized as a leader and awarded as an innovator.

### **Focus Areas**

- Application Development
- Infrastructure Engineering and Automation
- Monitoring & Observability
- SRF
- Private & Public Cloud
- DevOps
- Product Management
- ITSM

# **Technology Summary**

Systems Infrastructure: Windows, Linux, Load Balancing, Network Automation and Fundamentals/DDI,

Storage, Active Directory, VMware vSphere

Client/Server: .NET (C#), WCF, WPF, MVVM, SOA Web: ASP.NET, MVC, SOAP and RESTful services

Database: Microsoft SQL Server, PostgreSQL, MySQL, MongoDB, InfluxDB, Prometheus

Scripting: PowerShell, Python

Cloud / Datacenter Ops: vRealize/Aria Suite, Kubernetes, Rancher, Azure, AWS, Google Cloud,

SaltStack, Packer, Docker, Helm, Splunk, Grafana Stack, Telegraf, OpenTelemetry

# **Experience**

#### U.S. Bank, Chicago, IL

#### **Vice President – Lead Engineer**

08/2021 - Present

laaS Product Manager/Lead Engineer. Principal architect and lead engineer for six development, observability, automation, and infrastructure teams totaling 60+ engineers.

- As Technical Product Manager and Lead Engineer, built private cloud/laaS capability in alignment with strategic goals and drove engineering for net-new enterprise product.
- Unified multiple management and observability services into a single cohesive enterprise product.
- Authored, published, and obtained Enterprise Architecture adoption of bank-wide observabilityrelated specifications that extend existing industry standards.
- Key advisor to divisional CTOs, on strategic observability initiatives and technical implementation plans.
- Developed observability-related tooling that eliminated administrative toil and reduced cost by >10%.
- Standardized and simplified application teams' development and deployment practices by introducing tools such as Devcontainers, common linters, and others.
- Led migration of multiple applications from running standalone or in Docker Compose to Kubernetes using Helm; trained multiple engineering teams in the related tooling.
- Mentor engineers on advanced concepts such as database eventual consistency, CAP Theorem, and Infrastructure as Code principles. Primary mentor to rotational engineers/interns.

# Charles Schwab / optionsXpress, Chicago, IL Principal Engineer, 09/2018 - 04/2021

06/2006 - 04/2021

Technical and strategic lead on design and implementation of Schwab's second-generation internal laaS product. Led cross-functional team of developers and systems engineers to build and support laaS solution.

- Led all aspects of laaS implementation which resulted in transitioning a small percentage of virtual server builds executed automatically to greater than 90% built automatically, with >10,000 VMs provisioned via self-service for a dramatic cost savings.
- Primary designer of all significant aspects of end-to-end laaS solution using custom UI/REST API,
   vRealize Automation (vRA), and other custom solutions.
- Personally designed and implemented the first "blaze the trail" iteration of SaltStack configuration management toolset.
- Advised senior leadership, including CIO and CTO, on laaS-related capabilities and strategy.
- Guided application teams on design, operations, and adoption of laaS and laC practices and principles, as well as modern deployment strategies such as Blue/Green, Phoenix, etc.
- Instructed and assisted platform/OS teams in automation of source image builds to enable better adoption of laaS and eliminate toil associated with currency/patching of frequently released applications.
- CEO Award 2019

# **Senior Systems Design Engineer**, 10/2011 – 09/2018 **Systems Engineer**, 06/2006 – 10/2011

Built custom infrastructure and business monitoring and administration application suite used for 10+ years. Developed back-office tools to automate and streamline manual processes. Senior member of team that implemented an Infrastructure as a Service product.

- Greatly enhanced production availability and engineer productivity with continuously evolving custom tool set.
- Synthesized multiple monitoring approaches into a single cohesive product, including the creation of white- and black-box monitoring, metrics collection, and specifying and polling of golden signals.
- Created a large tools suite that improved processes across the organization, including systems administration, monitoring, compliance, and trading.
- Developed applications and reporting that substantially improved efficiencies in Trade Execution Desk operations and reduced errors and risk.
- Built tools that automated critical back-office processes.
- Enhanced / extended multiple existing tools and created new scripts and applications that automated infrastructure provisioning and management.
- Most Innovative Employee Award 2011

# **Additional Relevant Experience**

- ABN AMRO Services Company / IBM Global Services, Chicago, IL
- Giant Step Productions, Chicago, IL

# **Certifications**

Azure Fundamentals/AZ-900, 2022 Lean IT Association Foundation, 2018

## **Personal Interests**

Home Labbing Home Automation 3D Printing Sailing