

## Adam Jordan, MS, CISSP

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### Background

Distinguished software engineer, computer scientist, data scientist, and application security expert experienced across all aspects of the delivery lifecycle, including analysis, architecture, design, implementation, quality assurance, deployment, operations, and support. Architected, delivered, and oversaw solutions in areas of manufacturing, real-time control, integration, financial and commercial trading, biomedical, consumer applications, and general research.

### Professional Experience

Shell Global Solutions, Houston, TX; Sep 2008 to Present

#### **Distinguished Software Engineer**

##### **Capability Center Lead, Full Stack Development**

- Technical leader for all Shell businesses and engineers: defining technology strategy, supporting delivery excellence, assisting in career progression, assuring delivery of secure software, and other maturation activities
- Leading the Subsurface Modeling Technology architectural segment in Shell's Upstream business, building and driving technical strategy for a massive program
- Worked with and oversee a vast array of technologies from cloud-native business applications to C/C++ control and optimization systems
- Initiated "green", sustainable software at Shell and the primary representative to the Green Software Foundation
- Hands-on full stack development with Python, C/C++, HTML/CSS/JS, .Net/C#, SQL/NoSQL, Azure, Kubernetes and data science/AI/ML with Python

##### **Lead, Software Engineering Capabilities and Platforms (2017-2020)**

- Developed, managed, and planned the portfolio of software engineering tools for the entirety of Shell
- Developed the vision and strategy around new tools and services (e.g. cloud, containers) and related security implications, including Cloud Native technologies
- Lead the Application Security space in defining controls, building assurance mechanisms, and performing oversight in execution
- Developed and provided training in both agile concepts (e.g. DevOps processes & tools) and security concepts (e.g. risks, vulnerabilities, controls, processes)
- Hands-on full stack development with Python, C/C++, HTML/CSS/JS, .Net/C#, SQL/NoSQL, Go, Azure, Kubernetes and data science/AI/ML with Python

##### **US lead, Software Engineering Excellence (2015-2017)**

- Lead the design, plan, and implementation of DevOps, Lean, and Agile practices in its first rollout across an entire division and expansion into the rest of Shell
- Developed technology, tools, and platforms "funnel" for innovative technologies and delivery tools that can be embedded in software delivery teams for productivity, cost, or quality improvements
- Provided team-specific consulting to improve software delivery and security practices across the lifecycle in both small and extremely large teams, and across both waterfall and agile/DevOps projects
- Assisted in maintaining and refining software engineering standards

and best practices for the entirety of Shell

- Shared frequent proposals and updates on various software engineering topics to executive leadership

#### **Development Lead (2008-2015)**

- Lead 14 developers on the agile development of an entirely new end-to-end APC (advanced process control) software suite
  - Delivering \$1B in benefits to Shell
  - Four year, highly-visible project within Shell ("needle mover")
  - Responsible for efficient and timely development of the entire project
  - Project was a joint development with partner company, across multiple countries, and time zones
- Experience with multiple domains from hardware to cloud integration, and from upstream to downstream
- Deployed software in mission-critical and real-time environments
- Played a key role from concept inception through deployment on several projects
- Focused on deep, mission critical software with C#.Net, C++, SQL/NoSQL, WPF, WCF, MFC, Win32

Xylasoft, Houston, TX; June 2012 to Present

#### **Owner**

- Designed and developed Comic Seer, comic reading application for Windows & Linux, both desktop and mobile- used hundreds of times daily
- Delivered many small-scale side solutions for world-wide customers
- Provided ad-hoc consultation for software and services
- Delivered with modern Windows WPF/UWP on Windows tablets & desktops, and cross-platform C++/Qt for Windows & Linux

Aspen Technology, Houston, TX; Aug 2005 to Sep 2008

#### **Technical Lead, Senior Development Engineer**

- Built an enterprise scale communication infrastructure from the ground up, based on Publish Subscribe messaging, laying the foundation for service-oriented architecture
- Controlled all parts of the development process from architecture to installation and deployment
- Lead a small team in the development of supporting Aspen integration software
- Supported Aspen software with clients as third level support
- Developed all automated build processes and installations for the Aspen Integration software suite
- Leveraged new Microsoft technologies at the time to deliver commodity integration services with .Net/C#, WCF, and WinForms

University of Houston, Houston, TX; Apr 2005 to Sep 2005

#### **Researcher**

- Worked on a computation biomedical application that scanned images in search of gene specific data with Java-based technologies
- Collected, managed, and visualized the data in 2D and 3D models
- Make significant contributions through increased performance, accuracy, scalability, functionality, and software engineering concepts

## Technology

Vast experience across a wide variety of technologies as both a passionate engineer and a technology leader.

- Key Languages: C/C++, C# & .Net, Python, Go, R, Java, HTML/CSS/JS
- Key Skills: service & API development, application security & cybersecurity, integration, mission critical software, data science, AI/ML, desktop & engineering/modeling/3D software
- Key Platforms: Windows, Mac, Linux, Web, Android/iOS (limited)
- Cloud: Azure & AWS

Professional certification

- Certified Information System Security Professional (CISSP, 683407), ISC2
- Professional Scrum Master (PSM)

Patent

- US15/578,096: *System and method for replacing a live control/estimation application with a staged application*

## Education

Harvard University, Cambridge, MA  
Graduation May 2021

**Certification in Data Science**

Texas Tech University, Lubbock, TX  
Graduation December 2010

**M.S. in Computer Science, Thesis Option**

- Thesis based in the area of software artificial intelligence focused on software fault localization (the automation of detecting bugs in software)
- Title: Software Fault Localization with Theory of Evidence

University of Houston - Downtown, Houston, TX  
Graduation August 2005

**B.S. in Computer Science**