Daniel Silion

Sr. Manager, Software Engineering

- McKinney, Texas, United States
- +19544241593
- thedanielsilion@gmail.com
- www.aws.training/Details/InstructorLedTraining?id=100298
- training.figleaf.com/courses/ExtJS6Class.cfm
- goo.gl/xYF4D
- goo.gl/qjfrr
- goo.gl/StizK
- www.ai-class.com

SUMMARY

Contact
ScrumMaster, PMP, CUA, MCTS, AWS and Six Sigma Green(954) 424-1593
Belt Professional certified R&D, Sr Product and DevelopmenttheDanielSilion@gmail.com
Manager, and Software Architect with extensive experience
in the management, analysis, development and401 Appalachian Way
implementation of enterprise software solutions. Able to McKinney, TX 75071
establish and sustain mutuallybeneficial cross-functional
relationships with both internal and external project
stakeholders.

Hands-on Cloud and On-Premise Solution Architect, Full Stack
Software Engineer, Digital Transformation, Machine Learning
Engineer with over 20 years of experience in architecting,
designing and developing mobile, web and desktop solutions.
Focused on architecting, designing and implementing highly
scalable cloud-native SaaS Healthcare solutions with microservice
architecture and large scale on-premise projects ranging from
Financial to Laboratory management systems.

WORK EXPERIENCE

May 2022-Current

Sr. Manager, Software Engineering

- Capital One
- United States

Manage software development teams within Developer Navigator enterprise solution - standardized and automated SDLC experience that optimizes simplicity, accelerates development and drives quality.

DevNav empowers developers to design, setup, develop, test, deploy, maintain and monitor their app with minimum effort

so they can maximize their time delivering their customers an awesome experience.

Creates a managed pipeline for both non-prod and prod to build and deploy assets to AWS with full orchestration of CI/CD leveraging GitHub Enterprise, Standardized branching strategy, Enterprise Jenkins, JPL, Bogiefile, Gears file, Artifactory, Docker, ECS, Fargate, TD file, 7PS, Distributed tracing (New Relic), Application logging (Splunk), Alerting (PagerDuty), Assett Registry.

Skills/Tools:

AWS services: ECS, EC2, S3, RDS, VPC, Route53, ELB, IAM, CloudFront, CloudFormation, CloudWatch, Lambda, SQS, SNS, EventBridge

CI/CD Pipeline, Jenkins, TerraForm, Git

Monitoring/Logging: New Relic, Prometheus, Pager Duty, Splunk

JAVA, Python

SOA, REST API Agile, JIRA

May 2021-April 2022

Manager, Mobile Applications

🏢 Abbott

📍 United States

Manage the Digital Product Engineering organization and lead the ideation and implementation of nextgeneration capabilities, vision and roadmap for Abbott's Neuromodulation Product Apps, Infrastructure and Services, including Clinician Programmer and Patient Controller for the Neuromodulation devices for trial and permanent implant, remote programming feature, Deep Brain Stimulation (DBS) monopolar review, Spinal Cord Stimulation (SCS) multiple area BurstDR programming.

Research, development and innovation for human implantable cognitive software interfacing with the brain and spinal cord via Bluetooth and WiFi connectivity; delivery of Class III software medical device(s) with FDA and worldwide regulatory approval.

Skills/Tools: Azure Web App, Web API, Microsoft ASP.NET Signal R, Xamarin iOS SDK, C#, NetAnalyzers, SonarQube, Appium, DOORS, JIRA, Visual Studio App Center, iOS

January 2017-May 2021

R&D Manager | Principal Software Architect

🏢 Abbott

📍 United States

Technical leadership, Software development process expertise, Quality advocate, Business domain expertise, Full project life cycle expertise (Architecture, Design, Development, Testing, Deployment), Good communicator and negotiator, Objective decision making, Organizational politics navigator, Software/Infrastructure selection expert, Coach and mentor, Agile and eXtreme Programming expert.

Knowledge of developing products in a regulated environment, medical device industry.

Compliance standards: ISO 13485:2016, ISO13485:2003, ISO27001:2013, ISO9001:2008, ISO 9001:2015, ISO 14971:2019, ISO 15189, CLIA, CAP, GxP, ICH, HIPAA, GDPR, CFR 21 Part 11, 21 CFR Part 820, NATA, NeHTA.

Medical Device Connectivity/Systems Interfacing standards and protocols:
- HL7 FHIR, HL7, JSON, OpenAPI, SOAP, XML, CSV, Excel, custom formats

- HL7 MLLP, TCP/IP, REST API, gRPC, Web services, SFTP, SMB, ASTM, AWS S3, GraphQL

May 2012-December 2016

Software Engineering Manager

🏢 Abbott
📍 United States

eyeNet
- Web based solution providing systems interoperability.

Skills: Software Architecture, ASP.NET Web API, MVC, Identity, N tier architecture, AutoFac IoC
Container, Generic Repository, Unit of Work, AutoMapper, Semantic Logging Application Block,
EntityFramework, Electronic Signature and Audit, Crystal Reports integration, Moq, VS Text
Templating, VS Unit Testing, VS UI Testing, Extended ASP.NET data control attributes

Healthcare Informatics
- Managing the development of the Abbott Healthcare Informatics Solution - software that is built
andimplemented as a product (COTS), having a large audience: Clinical Research: Biorepositories,
Clinical Trials; Diagnostic Laboratories: Reference Labs. Design/manage product lifecycle,
design/manage the development of new functionality.

Transitioned the management of the Abbott Healthcare Informatics Solution SDLC to TFS, from previous inhouse
solution.
Extended Team Foundation for automations (auto create user story tasks; auto assign tasks, bugs and issues; auto
close/reactivate parent work item, etc.), a C# solution that uses the Team Foundation server object
model on the application tier.

Skills
Software Design, Project Management, Product Implementation Management, Product Strategy and Planning,
Coordination of Core Product and Client Project implementations, Software Development Life
Cycle, TFS, JScript .NET, C#, Team Foundation server object model, SSL, SQL Server Administration, T-SQL, Oracle
Administration, PL/SQL

March 2010-April 2012

Software Engineering Manager

🏢 Abbott
📍 United States

Managed the development of the SUNRISE product - software that is built and implemented as a product
(COTS), having a large audience: Public Health Laboratories, Centers of Disease Control. Designed/managed
product lifecycle, designed/managed the development of new functionality.

+ Software Engineering Manager
SUNRISE product (LIMS for the PHL sector), web-based laboratory information management system development in JScript .NET and SQL Server/Oracle RDBMS
Transitioned the SDLC from waterfall to Agile

+ Project Manager
Vermont Department of Health, StarLIMS V10, SQL Server 2005
CDC - NCEH (National Center for Environmental Health) Support
CDC - CCID (Coordinating Center for Infectious Diseases) Support

December 2003-March 2010

Software Product Manager / Project Manager

🏢 Abbott
📍 United States

Starlims: Managed the SUNRISE product - software that is built and implemented as a product (COTS), having a large audience: Public Health Laboratories, Centers of Disease Control. Designed/managed product lifecycle, designed/managed product new functionality.
Managed customer projects.

+ Software Product Manager
SUNRISE product (LIMS for the PHL sector), web-based laboratory information management system development in JScript .NET and SQL Server/Oracle RDBMS

+ Project Manager / Lead Engineer
Vermont Department of Health, StarLIMS V10, SQL Server 2005
CDC - NCEH (National Center for Environmental Health) Support
CDC - CCID (Coordinating Center for Infectious Diseases) Support

+ Project Lead Engineer
Cott Beverages, StarLIMS V10, SQL Server
Iowa UHL, StarLIMS V9, Oracle 10g
Tennessee PHL, StarLIMS V9, SQL Server

+ Senior Engineer
M&G, StarLIMS V10, SQL Server

+ System Analyst / Software Engineer
Maine Department of Health and Human Services, StarLIMS V9, Oracle
California Department of Health Services, StarLIMS V9, SQL Server
Demo for Saskatchewan, StarLIMS V10, SQL Server
Burns & Roe Services Corp., StarLIMS V9, Oracle
EMD, StarLIMS V9, Sybase
Demo for Ben&Jerry's, SQL Server
ESRD, StarLIMS V9, Oracle
Internal project management system - OIMS, StarLIMS V9, SQL Server

NCID, StarLIMS V9, SQL Server

Skills
Software Design, Project Management, Product Implementation Management, Product Strategy and Planning,
Coordination of Core Product and Client Project implementations, Software Development Life Cycle,
JScript .NET, SSL, SQL Server Administration, T-SQL, Oracle Administration, PL/SQL

June 2002-December 2003
Software Engineer

🏢 Elsaco
📍 United States

Developed multiple Web applications in php and desktop application in Visual Basic with various RDBMS
support.

+ Coordinated and participated in the creation of a billing application for ApaTerm Oradea and R.A.M.
Buzau, water distribution companies, application implemented in php with Sql Server database support
+ Developed an application for analysis, tracking and diagnosis of a meter park, application implemented in Visual Basic
with Microsoft Access database support
+ Developed Several Web applications, implemented in php with MySQL database support: Web application
for Internet traffic monitoring, Web application for automatic exchange traffic monitoring

Skills
PHP, Visual Basic, SQL Server Administration, T-SQL, MySQL Administration and Development, Microsoft Access

April 2001-June 2002
Software Engineer

🏢 InfoTip
📍 United States

Developed multiple Delphi applications with various RDBMS support.

+ Participated in the creation of a tax application for Botosani Mayoralty, application implemented in Delphi with Oracle
database support
+ Developed an application for administration of a veterinary surgery, application implemented in Delphi with Paradox
database support

Skills
Borland Delphi, Oracle Administration, PL/SQL, Paradox Administration and Development

January 2001-March 2001
Software Engineer

🏢 Electrocontact
📍 United States

Developed Visual C++ application.

+ Developed a presentation catalogue which was presented at Hanover Fair, application implemented in Visual C++

Skills
Visual C++

August 2000-December 2000

Software Engineer / Network Administrator

🏢 Transilvania Consult
📍 United States

Network administration and Web site development and maintenance.

+ Built and maintained Transilvania Consult's Web page + Linux and Windows Network Administration

EDUCATION

2023-Current

Associate

🎓 Udemy
📍 United States

Udemy Alumni
Machine Learning A-Z (TM): AI, Python & R + ChatGPT, Machine Learning
May 2023 - Present
Machine Learning/Data Science Algorithms in Python and R:
- Data Preprocessing
- Regression: Simple Linear Regression, Multiple Linear Regression, Polynomial Regression, SVR,
Decision Tree Regression, Random Forest Regression
- Classification: Logistic Regression, K-NN, SVM, Kernel SVM, Naive Bayes, Decision Tree
Classification, Random Forest Classification
- Clustering: K-Means, Hierarchical Clustering
- Association Rule Learning: Apriori, Eclat
- Reinforcement Learning: Upper Confidence Bound, Thompson Sampling
- Natural Language Processing: Bag-of-words model and algorithms for NLP

- Deep Learning: Artificial Neural Networks, Convolutional Neural Networks
- Dimensionality Reduction: PCA, LDA, Kernel PCA
- Model Selection & Boosting: k-fold Cross Validation, Parameter Tuning, Grid Search, XGBoost

Udemy Alumni
Ultimate AWS Certified Solutions Architect Associate 2022, Computer Science
Jun 2022 - Aug 2022
AWS Certified Solutions Architect Associate course - Udemy:

The AWS Fundamentals: IAM, EC2, Load Balancing, Auto Scaling, EBS, EFS, Route 53, RDS, ElastiCache, S3, CloudFront

The AWS CLI: CLI setup, usage on EC2, best practices, SDK, advanced usage

In-Depth Database comparison: RDS, Aurora, DynamoDB, Neptune, ElastiCache, Redshift, ElasticSearch, Athena

Monitoring, Troubleshooting & Audit: AWS CloudWatch, CloudTrail

AWS Integration & Messaging: SQS, SNS, Kinesis

AWS Serverless: AWS Lambda, DynamoDB, API Gateway, Cognito

AWS Security best practices: KMS, SSM Parameter Store, IAM Policies

VPC & Networking in depth

AWS Other Services Overview: CICD (CodeCommit, CodeBuild, CodePipeline, CodeDeploy), CloudFormation, ECS, Step Functions, SWF, EMR, Glue, OpsWorks, ElasticTranscoder, AWS Organizations, Workspaces, AppSync, Single Sign On (SSO)

Microsoft
ASP.NET Core MVC, Computer Software Engineering
2020 - 2020
Develop advanced ASP.NET Core MVC applications using .NET Core tools and technologies.

Microsoft
C#, Computer Programming

- Computer Science

2016-2016
- Pluralsight
- United States

Pluralsight
Picturing Architecture: UML (The Good Bits) and More, UML
2016 - 2016
This course shows you how to visualize and communicate architecture using pictures, which is essential in an Agile environment. It takes you through the design process, covering everything from story cards to representing complex activity flows.

Microsoft
Identity, ASP.NET

- Picturing Architecture

2015-2015
- PluralSight
- United States

PluralSight
Modern Software Architecture: Domain Models, CQRS, and Event Sourcing
2015 - 2015

- Modern Software Architecture

2015-2015

🎓 Microsoft Virtual Academy Customizing

📍 United States

2015 - 2015

Microsoft Virtual Academy Customizing ASP.NET Authentication with Identity

2014-2014

🎓 Carnegie Mellon University Software Engineering Institute

📍 United States

2014 - 2014

Carnegie Mellon University Software Engineering Institute (SEI) Software Architecture courses:
Principles and Practices, Design and Analysis

Human Factors International
Certified Usability Analyst (CUA) training courses
2012 - 2013
CUA Track Courses attended:
- User-Centered Analysis and Conceptual Design
- The Science and Art of Effective Web and Application Design
- Practical Usability Testing
- Putting Research into Practice

● Software Architecture

1996-2000

Bachelor's degree

🎓 Carnegie Mellon University

📍 United States

Universitatea "Alexandru Ioan Cuza" din Iași
Bachelor's degree, Computer Science
1996 - 2000

Carnegie Mellon University
Software Architecture

● Computer Science

SKILLS

.NET   Visual Studio   API   API Gateway   Appium   AWS CodePipeline   CodePipeline   B2B Software

Software Engineering   C#   C++   Coding   Computer Programming   Continuous Integration/Delivery

CI/CD   Delphi   Design Patterns   Entity Framework   Git   GraphQL   Javascript   Jenkins   JSON

MS .NET   .Net Core   ASP.NET WEB API   Object Oriented   OO   PHP   Python   Reactjs   React

RPC   gRPC   SonarQube   Structured Software   Software Development   Typescript   Visual Basic

Visual C++   Xamarin   XML   Amazon Cloudfront   Cloudfront   Amazon Elastic Block Storage   EBS

Amazon Elastic Compute Cloud   EC2   Amazon Kinesis   Kinesis   Amazon Simple Storage Service   AWS S3

Amazon Web Services   AWS   AWS Cloudformation   Cloudformation   AWS Cloudwatch   CloudWatch

AWS Fargate   Fargate   Docker   Load Balancing   ELB   Microsoft Azure   Serverless Architecture

AWS Lambda   Serverless   Terraform   AWS ROUTE53   ROUTE53   CGI   MS ASP   ASP.NET

Microsoft Asp.Net   SAAS   SOA   WEB Based   WEB-Based   WEB Services   Agile   Agile Methodologies

JIRA   PMI   PMP   Product Lifecycle   Scrum   Technical Leadership   Version Control

Encrypting File System   EFS   Hipaa   ISO   Secure File Transfer Protocol   SFTP   Splunk   SSL

Application Architecture   Application Design   Life Cycle   Software Development Life Cycle   MVC   SDLC

SEI   Software Architecture   Software Design   Software Life Cycle   Software Development Process

Software Lifecycle   UML   Unified Modeling Language   APM   New Relic   Clustering   GitHub   ISO27001

Network Administration   Networking   Prometheus   Server Administration   TCP/IP

Association Rule Learning   Boosting   Data Science   Deep Learning   Dimensionality Reduction

Hierarchical Clustering   K Nearest Neighbors Classification   K-NN   K-Means   Linear Discriminant Analysis

LDA   Linear Regression   Logistic Regression   Machine Learning   Neural Networks

Principal Component Analysis   PCA   Random Forest   Reinforcement Learning   Support Vector Machine

SVM   Microservice   Microservices   PAAS   REST   WEB API   HL7   LIMS   Amazon Dynamodb

Dynamodb   Artificial Intelligence   Elasticsearch   Latent Dirichlet Allocation   Natural Language Processing

NLP   Risk Analysis   Software as a Service   Human Factors   IEEE   Kernel   SOAP   Database

Microsoft Access   Access Database   MS SQL Server   Microsoft SQL Server   SQL Server   SQL Server 2005

Mysql   Oracle   Oracle 10G   PL/SQL   Relational Database   SQL   Sybase   Authentication

Identity and Access Management   IAM   Multi-Factor Authentication   MFA   Single Sign on   SSO

Deployment   IOS   IOS SDK   Model View Controller   Sencha   Model-View-Controller   User Interface

UI   Microsoft Team Foundation Server   Team Foundation Server   T-SQL   JAVA   COTS   EMR

Unit Testing   Usability   Usability Testing   Crystal Reports   RDBMS   Linux   CFR 21   Audit

Clinical Trials   ICH   FDA   Laboratory   Medical Device   Clinical Research   GXP   CLIA   Sampling

Design Product   Product Engineering   Lead Engineer   ECS   Control Systems   Implantable   Bluetooth

ASTM   Conceptual Design   Remediation   Site Development   Logging   AWS Certified

Learning and Development   Mentor   Neural   Managing Projects   Project Management   SIX Sigma

Testing Tools   Pipeline   Product Development   Product Implementation   Crisis Management

Remote Programming   Best Practices   Water Distribution   Environmental Health   Healthcare   Public Health

Semantic   SIX-Sigma   Corrective and Preventive Action   CAPA   User Experience Design   UX   UX Design

Usability Studies   Interviewing   Talent Acquisition   Instructor   Presentation Skills   Governance

Security Design   Maintenance   Billing   Excel   Microsoft Office   Paradox

CERTIFICATIONS

AWS Training and Certification

Ultimate AWS Certified Solutions Architect Associate   , Computer Science

Integration/Continuous Delivery (CI/CD), HL7 FHIR, REST API, gRPC

Integration/Continuous Delivery

ISO27001:2013, ISO9001:2008, ISO 9001:2015, ISO 14971:2019, ISO

Belt Professional certified Software Architect, and Product and

AWS, .Net Framework, .NET Core, ASP.NET Core, Entity Framework

15189, CLIA, CAP, GxP, ICH, HIPAA, GDPR, CFR   Part 11, 21

Core, SignalR, C#, Xamarin, React JS, Angular, TypeScript

AWS, ScrumMaster, PMP, CUA, MCTS, AWS and Six Sigma Green

Design Patterns: Repository, Unit of Work, Domain Driven

Microservices, Docker, Serverless computing, Continuous

Product development in regulated environment, medical

Compliance standards: ISO 13485:2016, ISO13485:2003

AWS Certified Solutions Architect -Associate

Issued May 2010 - Expires May 2016 1336843

Microsoft Specialist: Programming in C#

Scrum Master Certification Prep course

Segregation/Event Sourcing (CQRS/ES).

Segregation/Event Sourcing

CFR Part 820, NATA, NeHTA, IEC 62304.

Issued Aug 2022 - Expires Aug 2025

Certified Secure Software Engineer

Six Sigma Green Belt Professional

HFI (Human Factors International)

CUA (Certified Usability Analyst)

AWS Certified Solutions Architect

Certified Technology Specialist

GraphQL, Machine Learning.

Certificate of Completion

Amazon Web Services (AWS)

Amazon Web Services

CAPA Initiator/Evaluator

Certified ScrumMaster

Microsoft Specialist

Development Manager.

Certified Technology

Microsoft Certified

CAPA Investigator

device industry.

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6sigmastudy.com

Scrum Alliance

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Abbott

103245

HIPAA

MCTS

CAPA

PMP

PMI

CUA

LANGUAGES

English - Fluent   Spanish - Beginner   Romanian - Fluent   Italian - Beginner

WORK AUTHORIZATION

I am authorized to work in the following countries:

- United States