

Navid Haghighi, MEng, CSM

aws CERTIFIED

-  Solutions Architect - Associate
-  Developer - Associate
-  SysOps Administrator - Associate
-  DevOps Engineer - Professional
-  Solutions Architect - Professional

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SR. AWS SOLUTIONS ARCHITECT

AWS SME in Cloud Architecture ❖ AWS 5X Certified ❖ DevOps Experience ❖ Certified Scrum Master ❖ 8-Years of Proven Results

AWS Solutions Architect | DevOps | Serverless | Kubernetes | Technology Evangelist | Transformational Leadership | Team Mentor

► Culture driven Technology pacesetter – with years of success strategizing, implementing, and leading Teams at the brink of change and modern growth. History of leveraging existing and emerging technologies, uncovering opportunities, and directing trailblazing strategies to improve overall delivery of product from idea to consumer. Expert in designing\ simplifying solutions & implementing Application, Infrastructure, and Operation services for Large-scale enterprises to Start-ups. Proven track record with a growth mindset providing unity, problem solving, and support to increase organization efficiencies.

- Enable Innovation; Coach and Mentor the Enterprise Agile/DevOps adoption and transformation for teams across multiple organizations. Inspire and motivate teams to embrace change and to achieve success through continuous improvement.
- Hands-on expertise in Application Support, Change Management, Cloud Computing platforms, Configuration Management, Deployment specialist, HA/Business Continuity/Disaster Recovery, Incident/Problem Management, Quality Assurance, Build & Release Management, Technical Analysis, and Technical Operations.
- Architect and design of the Continuous Delivery process while establishing Governance and leveraging the Continuous Integration, Continuous Testing, and Continuous Monitoring process to improve infrastructure and software delivery.

CRITICAL COMPETENCIES

- Certified AWS Solutions Architect - Professional
- Certified AWS DevOps Engineer - Professional
- Certified AWS SysOps Admin
- Certified AWS Developer
- Certified Scrum Master
- Digital Strategy & Transformation
- Datacenter Migration
- Client Relationship Management & Retention
- Technical Planning & Execution
- Business & Technology Alignment
- Cost Control & Operational efficiency
- Cloud Development & Empowerment of Technical Teams

SPECIFIC EXPERTISE

- Extensive experienced defining IT Roadmap, cloud strategy, Enterprise/solution architecture, Architecture assessment.
- Hands-on experience on implementing **Cloud Solutions** using various AWS Services **including EC2, VPC, S3, Glacier, EFS, AWS Kinesis, Lambda, Directory Services, Cloud Formation, Ops works, Code Pipeline, Code Build, Code Deploy, Elastic Beanstalk, RDS, Data Pipeline, DynamoDB, Redshift** etc.
- Hands-on experience on Architecting and securing the Infrastructure on AWS using **IAM, KMS, Cognito, API Gateway, Cloud Trail, Cloud Watch, Config, Trusted Advisor, Security Groups, NACL** etc.
- Expertise in **DevOps, Release Engineering, Configuration Management, Cloud Infrastructure, Automation**. It includes **Amazon Web Services (AWS), Ant, Maven, Jenkins, Chef, SVN, GitHub, Serena Products, ClearCase, Build Forge, Serena PVCS, CVS, Tomcat, JBoss, LINUX** etc.
- Experienced in designing cloud models for **Infrastructure-as-a-service (IaaS), Platform-as-a-service (PaaS), and Software-as-a-Service (SaaS)**.
- Good knowledge on **Application Migrations** and **Data migrations** from **On-premise** to AWS Cloud.

- Architected and implemented **Containerization landscape** using **Kubernetes** and **EKS**
- Strong Knowledge creating **ANT/ MAVEN** with **Puppet** build script for Deployment.
- Administration various environments in software development life cycle (SDLC) **Windows, Ubuntu, Red Hat Linux, SUSE Linux and CentOS**. Experience supporting **Chef** Environment with multi servers and involved in developing manifests.
- Experienced in Installing and configuring **Chef Enterprise** and **Chef Workstation** hosted as well as On-Premise; **Bootstrapped** Nodes; Wrote Recipes, Cookbooks and uploaded them to **Chef-server**.
- Good knowledge of **RDBMS and projects using Oracle, SQL Server, SQL, PL/SQL**
- Worked on creating **APIs**, using **ASP.NET Web API** and developed **ASP.NET Web Forms** using **HTML, AngularJS, JavaScript**, and **CSS** to control the style and layout of multiple pages.
- Experienced in Automated resource creation process using **CFT, JSON, Bash and Python** scripts through pre-boot and bootstrapping process.
- Good understanding of monitoring tools like **Splunk, New Relic**.
- Used scripting languages like **Python, Ruby, Perl, Bash** and configuration management tools **Chef, Puppet, and CF Engine**.
- Developed **Chef Cookbooks** and Recipes to manage systems configuration.
- Deployed **Microservices**, including provisioning AWS environments using **Ansible** Playbooks.
- Designing and deploying scalable, highly available, Secured and fault tolerant systems on AWS.
- **Lift and shift** of an existing on-premises application to AWS.
- Selecting the appropriate AWS service based on data, compute, database, or security requirements.
- Identifying appropriate use of AWS Architectural best practices.
- Estimating AWS costs and identifying cost control mechanisms.
- **DevOps** experience with Puppet, Chef, Ansible, AWS (Ops Work).
- Continuous Integration Tools **Jenkins, Bamboo**.
- Source Code Management tools such as **SVN, GIT, TFS**.

Verisk Analytics, Jersey City, NJ

January 2017 – Present

Enterprise Solutions Architect / AWS DevOps Architect

Verisk Analytics is a leading data analytics provider serving customers in insurance, natural resources, and financial services. Using advanced technologies to collect and analyze billions of records, Verisk Analytics draws on unique data assets and deep domain expertise to provide first-to-market innovations that are integrated into customer workflows. Verisk offers predictive analytics and decision support solutions to customers in rating, underwriting, claims, catastrophe and weather risk, global risk analytics, natural resources intelligence, economic forecasting, and many other fields.

Responsibilities:

- Designing and implementation of public and private facing applications on **AWS Cloud**.
- Migrating from On-Premise Infrastructure to **AWS Cloud** by implementing a **Hybrid Cloud Architecture**
- Designing and implementing of **Serverless Applications** on AWS Cloud using **Lambda, API Gateway, CloudFront, AWS SAM**.
- Designing and Implementing of **Containerization** using **Docker** and **Kubernetes**, and leveraging **ECS** and **EKS** on AWS
- Designing, Architecting, and implementation of POCs for **Event Driven Architecture** for **Data Analysis** using **AWS Glue, Athena, and Tableau**
- Architecting and Implementing of **Organization** accounts and their **Global Networking** using **VPC, AWS Direct Connect, AWS Organization, Service Catalog, AWS Consolidated Billing, AWS Config, and IAM Policies**
- Designing and implementation of Security against **DDoS attacks** using **AWS WAF** and **Advanced Shield, Incapsula**
- Implementation of data security on Rest and Transit using **ACM, KMS**
- Designing and implementation of POCs for **Data Lake** concepts using **AWS Glue ETL jobs, Kinesis, Redshift and ElasticSearch**
- Focusing on **High-Availability, Fault Tolerance, and Auto Scaling** using **AWS Cloud**.
- Configured and managed various AWS Services including **EC2, RDS, DynamoDB, VPC, S3, Glacier, Cloud Watch, Cloud Front, Cloud Formation and Route 53** etc.
- Configured various performance metrics and monitoring using **AWS Cloud watch, Splunk, AWS X-Ray, Pager Duty and New Relic**.
- Worked on configuring Cross-Account deployments using **AWS Code Pipeline, Code Build and Code Deploy, OpsWorks, Octopus** by creating Cross-Account Policies & Roles on **IAM**.
- Written various **Lambda** services for automating the functionality on the Cloud.
- Used **AWS Route 53** for configuring the **High-Availability and Disaster Recovery** to make the environment up and running in case of any unexpected disaster.
- Involved in setting up builds using **Chef as a configuration management tool**
- Deployed and configured **Chef Server** and **Chef Solo** including bootstrapping of chef client nodes for provisioning; Created roles, cookbooks, recipes, and data bags for server configuration, deployment, and app stack build outs.

- Deploying and managing many servers utilizing both traditional and cloud-oriented providers (**AWS**) with the **Chef Platform** configuration system.
- Architected and **implemented CI/CD/CT Pipe line** for all the applications SDLC in AWS landscape
- Create **AMIs** for mission critical production servers for backup.
- Worked in all areas of **Bamboo** setting up CI for new branches, build automation, and plugin management.
- Build **Java code and .NET code** on to different **Bamboo agents** as per the schedule.
- Deployed application updates using **Bamboo and Octopus**.
- Experience in building applications of various architecture styles like Micro-services architecture consisting of Restful web services and **Docker** container-based deployments.
- Deployed **Docker Engines** in Virtualized Platforms for containerization of multiple apps.
- Deployed and configured **Git repositories** with branching, forks, tagging, and notifications.
- Installed and configured **New Relic** as monitoring tool for disk usage, CPU utilization, list of open files etc. and sending alerts to our teams based on the same.

American Express (FXIP Project), New York, NY

September 2016 – January 2017

Lead Automation Developer/ Automation Architect

FX International Payments is a service of American Express Travel Related Services Company, Inc. This service is just for the business owners. To enroll in this service, the business will be required to complete an application, which is subject to review and approval by American Express.

Responsibilities:

- **Leading a group of Eight SDETs and DevOps** onsite by passing the frameworks, **Code Reviews, Mentoring the new team members, and Handling weekly SDET Team meetings**
- Support and promoted **DevOps** practices across the development organization to continually improve **Change, Test, Build, Release, and Metrics Management**.
- Designed, deployed, managed and operating **scalable, highly available, and fault tolerance** system on AWS.
- Responsible for configuring and securing the infrastructure on AWS Cloud
- Done the Capacity planning and Architecture **Design of AWS Infrastructure**
- Configuring the Continuous integration and Deployment (**CI/CD**) of the code on to **AWS cloud**
- Responsible for Creating AWS IAM Users, Policies, Groups etc.
- Provisioning of AWS resources like **EC2, VPC, EBS, AMI, S3 buckets**, creation of subnets and all other operational tasks using Ansible.
- Performed configuration, deployment, and support of cloud services including Amazon Web Services. Performing the hardening of AWS root account after requisition.
- Creating the configuration for establishing a **VPN** tunnel between on premise network and **AWS VPC**.
- Deployed Microservices, including provisioning **AWS** environments using **Chef**.
- Provisioned load balancer, auto-scaling group and launch configuration for micro services using Ansible.
- Installation of Apache Tomcat on **EC2** instances and Installation using **Dockers**.
- Executed **White-box Testing** with **Selenium WebDriver** in **Integration Testing** and **System Testing** for **Functional** and **Non-functional** requirements, including performed **Regression Testing** to ensure the integrated modules co-functioning well in the incremental versions of product, and performed **End-to-End Testing** to ensure the complete integrated product working well.
- Design the required test strategy in line with the scope and organization standards
- Identify the training requirements of the Software Test Engineers
- Assign tasks to the Software Test Engineers based on the software test plan based on communication with **PO** and **Scrum Masters**
- Designed **Test Plan, Test Strategies, Test Suite**, and Test Cases
- Designing the Testing **Hybrid Framework from scratch for SDLC based on ATDD**
- Designed and implemented all the testing phases to have **CI, CT, CD using the Jenkins**
- Designed the framework from scratch for **Back End Validation, API Testing, and Data Base Validation**
- Designed a Hybrid Framework for **ATDD approach** base on **Page factory pattern** and **Gherkin** and **Cucumber** using **Selenium on Java**
- **Multiple browser, Cross Browser** testing in **Selenium Grid** and **SauceLab** on Cloud
- Designed a **new architecture and solution for Mobile browser testing, Andriod and Apple** using **Appium**
- Designed a **new architecture and solution** included **Data Driven Test, Gherkin, Page factory**
- Performed **WebService, and API Testing** using **SOAPUI Pro, and Postman**
- Performed **Automation Testing** by using **Java Object Orientated Programming** for **Selenium WebDriver** with **Eclipse**

- Built the **Test Environment** in the hardware and software system based on the project requirement
- Built the path for **Selenium** in **Eclipse** and created **Test Framework** for the **Automation Testing**
- Created **Graphic User Interface** testing scripts to emulate the **Front-end** activities that potential users would perform as they interacted with the application and to test the **GUI** requirements
- Performed **Data-Driven Testing** for positive and negative data from external **Excel** file, **CSV**, and **SQL Servers** using **JDBC**
- Created the **Frameworks** and automated the tests with using the **TestNG from Scratch**
- Used **PageObject** and **PageFactory** pattern for the Selenium programming
- Performed **Mobile / Tablet Applications** Manual Testing for **IOS / Android** using simulators for **Hybrid Websites** or on **Actual devices**.
- Performed and designed the frameworks from scratch for **Mobile Application Automation Testing** using **Selendroid** or **Emulators**
- Performed and designed the frameworks as **Maven** Projects for build purposes
- Documented defects found during the test execution, and kept track of the defects by using **Rally** and **Jira**, and performed **Regression Testing** for the defect fixes in each version update
- Reported the test results using **ReportNG**, analyzed **Test Report** with the test documentation details, and submitted the review to the team
- Used **SOAPUI** for **Web Services** Validation. Added **Assertions** in the script for validation purposes
- **Mentoring** and **Training** the other team members, offshore and onsite
- Participated in weekly status update with reporting testing progress and issues

Centralized Alabama Recipient Eligibility System (CARES), Montgomery, AL
Lead SDET/ Automation Architect

March 2015 – September 2016

The Centralized Alabama Recipient Eligibility System (CARES) is Alabama's approach to the modernization of the enrollment and eligibility systems for Medicaid, Child Health Insurance Program, Food Assistance, TANF and Subsidized Child Care. Through this system, citizens will be linked with critical, life-saving services in an efficient, user-centric interface.

The project was to develop a web application in order to provide some Health Coverage for the people of Alabama who are eligible for getting the Health Coverage. In fact, this application is able to check the eligibility of the applicant, filing the state tax, and submitting the applicant's documents to DHR in order to process of health coverage. This project also contains UI project, CRM, Mobile User Interface, web interfaces, and InRule Project for checking the internal eligibility.

Responsibilities:

- **Leading a group of Six Automation Testers and SDET** onsite by passing the frameworks, **doing their code reviews**, **mentoring the new team members**, and **Handling weekly SDET Team meetings**
- Worked on **AWS EC2, IAM, S3, EBS, Elastic Load balancer (ELB)**, **auto scaling group services**.
- Implemented continuous integration using **Jenkins**.
- **Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process.**
- Designing the Testing **Hybrid Framework from scratch for SDLC based on ATDD**
- Designed and implemented all the testing phases to have **CI, CT, CD using the Jenkins, Octopus, TFS, MS Build in Azure Environment**
- Analyzed Requirements and Specifications, then established **Requirement Traceability Matrix** between software requirements and test cases
- Designed the framework from scratch for **Back End Validation, API Testing, and Data Base Validation**
- Designed a Hybrid Framework for **ATDD approach** base on **Page factory pattern** and **Gherkin** and **Specflow** using **CodedUI on C# and other Microsoft packages**
- Designed a **new architecture and solution** included **Data Driven Test, Gherkin, Page factory**
- Designed a **Hybrid framework** for CRM using **Selenium Webdriver** coding on **Java** using **TestNG** and **Junit framework based on ATDD Approach**
- Designed test Plan, Test Strategies, Test Suite, and test Cases
- Performed **WebService, and API Testing** using **SOAPUI Pro**, and **Postman**
- Performed **Automation Testing** by using **Java Object Orientated Programming** for **Selenium WebDriver** with **Eclipse**
- Built the **Test Environment** in the hardware and software system based on the project requirement
- Built the path for **Selenium** in **Eclipse** and created **Test Framework** for the **Automation Testing**
- Performed **Smoke Testing** for the environment that ensure the function ability

- Executed **White-box Testing** with **Selenium WebDriver** in **Integration Testing** and **System Testing** for **Functional** and **Non-functional** requirements, including performed **Regression Testing** to ensure the integrated modules co-functioning well in the incremental versions of product, and performed **End-to-End Testing** to ensure the complete integrated product working well.
- Created **Graphic User Interface** testing scripts to emulate the **Front-end** activities that potential users would perform as they interacted with the application and to test the **GUI** requirements
- Performed **Data-Driven Testing** for positive and negative data from external **Excel** file, **CSV**, and **SQL Servers** using **JDBC**
- Used **PageObject** and **PageFactory** pattern for the Selenium programming
- Created the **Frameworks** and automated the tests with using the **TestNG from Scratch**
- **Multiple browser** instances testing in **Selenium Grid**
- Performed **Mobile / Tablet Applications** Manual Testing for **IOS / Android** using simulators for **Hybrid Websites** or on **Actual devices**.
- Performed and designed the frameworks as **Maven** Projects for build purposes.
- Performed and designed the frameworks from scratch for **Mobile Application Automation Testing** using **Selendroid** or **Emulators** such as **Perfectomobile** for **IOS/ Android**
- Performed **SalesForce As CRM Application** in order to track applicants' behavior about the NSHP program
- Performed **Regression** using **Selenium WebDriver** for **CRM Microsoft cloud application**
- Converted the **Frameworks** and **Test Cases** to the **Azure Cloud Base Platforms**
- Performed and designed the frameworks as **Maven** Projects for build purposes
- Running all the phases of the testing as a part of **CI/CD in Azure Cloud Platform**
- Documented defects found during the test execution, and kept track of the defects by using **TFS**, and performed **Regression Testing** for the defect fixes in each version update
- Performed **performance Testing** for the application by using **Jmeter** and Performance Testing tool provided by **.Net package**
- Reported the test results using **ReportNG**, analyzed **Test Report** with the test documentation details, and submitted the review to the team
- Used **SOAPUI** for **Web Services** Validation. Added **Assertions** in the script for validation purposes
- **Mentoring** and **Training** the other team members, offshore and onsite
- Participated in weekly status update with reporting testing progress and issues

California Energy Commission (CEC), Sacramento, CA
Sr. Software Quality Engineer

June 2013 – March 2015

The Energy Commission's Renewable Energy Program provided market-based incentives for new and existing utility-scale facilities powered by renewable energy. It also offered consumer rebates for installing new wind and solar renewable energy systems. The program also helps educate the public regarding renewable energy. The California Energy Commission's New Solar Homes Partnership (NSHP), which we are working on it, is part of the comprehensive statewide solar program, known as the California Solar Initiative. The NSHP provides financial incentives and other support to home builders, encouraging the construction of new, energy efficient solar homes that save homeowners money on their electric bills and protect the environment.

Responsibilities:

- Analyzed Requirements and Specifications, then established **Requirement Traceability Matrix** between software requirements and test cases
- Designed test Plan, Test Strategies, Test Suite, and test Cases
- Performed **Automation Testing** by using **Java Object Orientated Programming** for **Selenium WebDriver** with **Eclipse**
- Built the **Test Environment** in the hardware and software system based on the project requirement
- Built the path for **Selenium** in **Eclipse** and created **Test Framework** for the **Automation Testing**
- Performed **Smoke Testing** for the environment that ensure the function ability
- Executed **Black-box Testing** with **Selenium WebDriver** in **Integration Testing** and **System Testing** for **Functional** and **Non-functional** requirements, including performed **Regression Testing** to ensure the integrated modules co-functioning well in the incremental versions of product, and performed **End-to-End Testing** to ensure the complete integrated product working well.
- Created **Graphic User Interface** testing scripts to emulate the **Front-end** activities that potential users would perform as they interacted with the application and to test the **GUI** requirements
- Performed **Data-Driven Testing** for positive and negative data from external **Excel** file or **SQL Servers** using **JDBC**
- Used **PageObject** and **PageFactory** pattern for the Selenium programming
- Created the **Frameworks** and automated the tests with using the **TestNG from Scratch**

- **Multiple browser** instances testing in **Selenium Grid**
- Performed **Mobile / Tablet Applications** Manual Testing for **IOS / Android** using simulators for **Hybrid Websites** or on **Actual devices**.
- Performed and designed the frameworks from scratch for **Mobile Application Automation Testing** using **Selendroid** or **Emulators** such as **Perfectomobile** for **IOS/ Android**
- Performed **Regression** using **Selenium WebDriver** for **CRM Salesforce cloud application**
- Converted the **Frameworks** and **Test Cases** to the **Cloud Base Platforms** using **Saucelabs**
- Performed **the Eclipse plug in** for **Continues Integration** using **Jenkins**
- Performed and designed the frameworks as **Maven** Projects for build purposes.
- Performed **Load Testing** using **Jmeter**
- Documented defects found during the test execution, and kept track of the defects by using **Quality Center**, and performed **Regression Testing** for the defect fixes in each version update
- Reported the test results using **ReportNG**, analyzed **Test Report** with the test documentation details, and submitted the review to the team
- Used **SOAPUI** for **Web Services** Validation. Added **Assertions** in the script for validation purposes
- **Mentoring** and **Training** the other team members, offshore and onsite
- Participated in weekly status update with reporting testing progress and issues

California State University, Sacramento, CA
Teacher Assistant / Research Assistant

September 2012 – May 2014

Responsibilities:

- Teaching Assistance for Three courses (System Modeling Course, Finite Element Analysis Course, Multi body Dynamics Course)
- Presenting subjects matter to students under the direction and guidance of teachers, using lectures, discussions, or supervised role-playing methods.
- Research Assistance for Finite Element Analysis of second generation of solar energy resource for the International Space Station prototype.

EDUCATION

Master of Science in Robotics and Mechanical Engineering at California State University, GPA 3.96/4.00
 Vice President of Robotics Society of California State University

Bachelor of Science in Mechanical Engineering (Solid Design) at Shiraz University
 Member of Scientific Associations of Shiraz University