

**GRACE VICTORIA**  
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**AWS Certified Solution Architect**  
**Sun certified java programmer and web component developer**

## **EXPERIENCE SUMMARY**

- Enterprise/Solution architect at state of Michigan for environmental and great lakes water management system. Over see the architecture and road map of State of Michigan drinking water, soil and air quality architecture, governance and road map. Build foundational architecture and road map for state of Michigan Environment department to make sure department aligns with state enterprise architecture patterns and guidelines and improve performance, up time .
- AWS Cloud architect at cross country health. Current state architecture reviews future state architecture proposals. Establish architecture review board. Create templates and governance models for architecture review board.
- Analyze companywide texting and email solutions and create architecture using AWS pinpoint.
- Create architecture proposal for multi-tenant staffing products using different application tracking systems.
- Integrate health care portal Postgres database with sage maker to create recommendations for job search, location preferences. Facility recommendations.
- Responsible for creating local and regional architecture review boards. Responsible for creating the center of excellence for clouds. Establishing relationship between enterprise architecture and cloud architecture teams.
- Load and performance testing for connected vehicle platforms for over 12 million vehicles.
- Vehicle event management, application communication and cache management for global applications using azure cosmos dB and Redis cache. Secure application development. Vendor management.
- Collaborate and manage high performing teams globally to achieve Ford connected vehicle features like vehicle enrollment. Authorization etc.
- RFP development at Ford for vendor selection and acquiring purchased resources to complete the work. RFP development and vendor selection at cross country health for application development, cost and time.
- Development of enterprise architecture standards, educate developers and architects on standards and best practices.

- I have over seen. Net azure development efforts of over 20 API or products. Responsible for best practices, design, code review, delivery and performance of API.
- Ford-Model -E System of system architecture supervisor. High Tech High demand architect leading fully networked vehicle FNV4 OTA, feature management and cloud configuration and digital twin. FNV4 which revolutionize over the air updates simplifies vehicle architecture and reduces number of electronic control units in the vehicles.
- Ford Enterprise Connectivity engineering product owner supervisor. Responsible for vision, solution design and delivery of connected vehicle feature management, ECU swap and restoration, in vehicle reset and remote reset of connected vehicle features.
- Unique experience as architecture leader, system engineering and product delivery manager.
- Highly technical, working on many complex projects delivering results working with many cross functional teams.
- In depth knowledge of Cloud and in vehicle architecture for EC platform products.
- Hands on experience trouble shooting any complex problem, involving many systems and many teams.
- Deep knowledge of OTA as product owner of remote vehicle configurations.
- Deep knowledge of core systems which support OTA, Enrollments like service tool, CVFMA, GVMS, GIVIS, VSDN, TMC, VSCS process etc.
- Responsible for creating dashboards working with GDIA, DSC, VDCC and Pace dashboard for platform products.
- Building and leading teams from the ground up. Experience in hiring, training, and mentoring highly skilled and talented employees eg: system architects, system engineers, product managers and product designers. Building, training offshore teams.
- Improving system performance, building highly scalable highly available systems.
- Started building new system architect / system engineer team in India.
- Provided FNV2 onwards solution to restore ECU using FDRS tool without dependency on cloud.
- Lead team to build reset and restore solution from cloud to help Ford Customer Solution division to do super reset on fleet vehicles remotely. Reset fleet vehicles from cloud.
- Defined ~100 new connected vehicle features for FNV2 architecture. Onboarded new features, define feature capability and enrollment and un enrollment rules. Compatibility with fleet and retail customers using the same vehicles with CV features.
- Connected Vehicle Cloud Sr Solution Architect. Designed and architected connected features utilizing highly scalable and highly available micro services using Microsoft Azure and PCF.
- I was responsible for building platform feature capability, enrollment, un-enrollment, vehicle configuration updates and vehicle event management.
- Road map creation, backlog prioritization, KPI definition, dashboard creation and measuring KPIs.
- Root Cause Analysis and solution definition near term and long term.

- I was also responsible for building IP pass through platform for vehicle features which may need to communicate to third party or ford directly for large amount of data from vehicle.
- Built highly scalable and available architecture for connected vehicle feature management application. This application authors, manages and updates every vehicle feature. As part of this application, I built four core services for connected cars. Global vehicles capability service based on vehicle hardware software, model year, and using different ECU. Feature enrollment, Un enrollment, configuration update and event management application.
- Develop and monitor the organization's technology architecture and future technology vision. Identify, implement and monitor best practices for application and technology architecture. Determine creative solutions to strategic and operational needs. Strong experience designing and delivering SOA projects on time and on budget.
- knowledge of SOA governance, SOA standards and implementing web services.
- Evaluate compliance with the organization's technology standards.
- Guide and consult with IT management and technical staff regarding use of emerging technologies and associated services.
- Participate in the evaluation, selection and application of new and emerging tools and techniques.
- Extensive experience SOA, IBM Portal, Web sphere Content Management, Liferay and Vignette portal technologies, Web Seal, Single Sign On, Object-Oriented Analysis design and development, IBM Data Power Appliances, Web Service proxy, Gate way ESB, UML, Java, J2EE, LDAP, Tivoli Work Scheduler, middleware and enterprise application architecture, implementation and Integration.
- expertise managing onsite and offshore teams.
- Experience in vendor management, vendor selection, and project management.
- Experience in TOGAF, ADM, ZACHMAN framework.

## SKILLS OVERVIEW

**AWS, Lambda, Dynamo DB, RDS, Step Functions, App Sync, Cloud Microsoft Azure, PCF, Event HUBs, Service Bus queues and topics, Azure SQL, authentication and authorization. Rest API standards. Kafka. Event based architecture, document DB, micro services architecture. PCF on prem and cloud architecture.**

Languages: Java, Java Script

Cloud: AWS LAMDA, Dynamo DB, RDS, App Sync, Step functions, AWS Pinpoint. Micro service, Kafka. REST API, Splunk, SQS, Service Bus, Event Hub, Schedulers, Document DB, OTA, Azure, Graphana, Prometheus, Splunk, Dyna Trace. Cloud Trail, Cloud watch, Sage Maker, Jenkins, CI-CD pipelines,

	terraform, CloudFormation, IaC, Glue, Hybrid Cloud. EKS and ECS. GraphQL
IN Vehicle:	Vehicle networks, vehicle architecture, ECG, SYNC,  HPCM, OBCC, BLEM, BLEAM. CAN, ETHERNE, FTIDE, VSEM HIL testing, bread board testing, Vehicle Spy, DET tool. FDRS
Methodology:	TOGAF; Zachman, Layered architecture, Micro Services architecture, Cloud Architecture, MVC Architecture, Service Oriented Architecture, Extreme Programming, Agile Methodology, Software Patterns
Tools:	Visio, Lucid Chart.
Database:	Azure SQL, Document DB, Mongo DB Oracle 10G, DB2, SQL Server, My SQL
DEV-OPS CI -CD:	Angular, Spring , Java, Junit, GitHub, JIRA, Sonar Cube, PCF, SQL Server, Azure, Kafka, Gradle, Nexus, Postman, JMeter, Jenkins, Slack, Splunk, IT Connect, TMC, Nexus,

## PROFESSIONAL EXPERIENCE

### State Of Michigan May 2024 Present

### Lead Solutions Architect

Lead architect building systems for underground water management and analytical water quality data.

Enterprise/Solution architect at state of Michigan for environmental and great lakes water management system. Oversee the architecture and road map of State of Michigan drinking water, soil and air quality architecture, governance and road map. Build foundational architecture and road maps for the state of Michigan Environment department to make sure the department aligns with state enterprise architecture patterns and guidelines and improve performance, up time for the entire division.

Technology: TOGAF, ZACHMAN, AWS, AZURE, EQUIS Global Environment Software, SQL , DATAWARE HOUSE.

**BGPTech**

**Sr. Aws Cloud Architect.**

**Jan 2024 Present [Self Employed]**

- Digital Transformation, cloud migration, building cloud native applications. Architecture analysis and proposals.
- Build applications from ground up and plan for global roll out of applications as software as solution products on cloud,
- Responsible for security and multi-tenant applications.
- Payment processing, analytics and management.

**Cross Country Health****Sr AWS Cloud Architect****Nov 2022 Oct 2023**

- Cross Country health care is a health care staffing company. I was responsible for analyzing current state architecture and building new architecture roadmap for multi-tenant software as service architecture. Evaluated existing single sign on solution for B2B customers and evaluated existing and proposed architecture solutions conducted proof of concept and recommended aws Cognito for SSO. Analyzed companywide messaging solutions for email and text created business integration models and created solution using AWS pinpoint.
- Used Dynatrace integration with AWS for application trouble shooting and for lambda monitoring.
- Integrate Sage Maker with health care provider database to create recommended list of jobs, facilities, job types and locations. Build ML-OPS pipelines with a sage maker.
- **Technology: AWS SQS, AWS SNS, AWS Step functions, AWS Event bridge, AWS Pinpoint, EC2, FARGATE, DMS, REDSHIFT, Glue, S3, Kafka, Aurora, Dynamo DB,IAC, CloudFormation, SOW GRAPHQL.**

**Ford Motor Company  
Manager.****Cloud Architecture and Engineering Sr****Aug 2018 to Aug 2022**

- Responsible for supervising Over 20 system architect, cloud engineers and product managers in USA, INDIA.
- Dotted line supervisor for managing teams in China, UK and Germany.
- Responsible for hiring system and cloud architect, engineers and product owner / managers.
- Building one of the best cloud and vehicle teams in Ford Motor Company.
- Responsible for teaching and educating other architects and engineers in Ford globally over 1000 technical engineers and architects.

- Platform Enablement team Supervisor for enterprise connectivity platform products for vehicle capability, feature enrollment, unenrollment. Master reset, Feature reset, and Brand connect reset. ECU swap and restoration.
- Responsible for enterprise connectivity platform product vision, solution design, solution development and delivery.
- Provided platform to define FNV2 vehicles Mach-E and F-150 electrical vehicle capabilities and enroll features upon authorization, end of line and customer-initiated enrollment. Vehicle capacities are defined based on part II specs hardware, software and MFAL codes etc.
- ECU swap and restore. Any module which provisions upon swap needs to be restored back to its previous state. Defined brand new solution of restoring DIDs Type -1 and Type-5 manufacture specific DIDs upon ECU swap using cloud and FDRS tool. Provide the platform to restore any ECU which provision.
- Resolved issue where multiple ESNs are reporting same VIN this problem had been there for more than 7 years.
- Upon Master reset, feature reset and connected feature resets all ECUs roll back to factory state.
- Defined and designed vehicle and cloud solution for restoring ECU's. ECU includes BLEM, SYNC, TCU, ECG, OBCC and HPCM.
- Used Splunk and distributed tracing and custom reporting applications to measure API performance, error, availability failure rate etc.
- **Technology: AWS REDSHIFT, AWS AMPLIFY, SQS, Lambda, AZURE Queues, AZURE Event hub, Azure IOT Hub, App Server, Document DB, Azure SQL, Azure Scheduler, Azure cache. GCP function, GKE. SOW. IaC.**

## **Ford Motor Company**

## **Sr. Cloud and Connected Vehicle Architect.**

**June 2015 to August 2018.**

- Handling many a complex problem and leading through to solution with varied hybrid teams, including business and technical SMEs, PD, Mobile Architects, etc
- I have very strong technical, system development and architectural background. I have completed many complex projects.
- I have been working as a Senior Solution architect in connected vehicles since 2015. I am responsible for launching the WIFI feature Telematics feature PAAK, RTT etc.

- I am an architect for connected vehicle feature management application and ip-pass through application. These applications provide a platform for any connected vehicle feature used by the user.
- I have excellent deep technical knowledge of connected car features. How they are defined what makes a vehicle capable of feature what systems are involved in enrolling a feature. What configuration could be made for a feature.
- I am the go-to person for all technical and system knowledge of connected car features.
- Senior architect for connected feature management application which is responsible for authoring features or products. Defining capability of the feature. Enroll, Un enroll and configuration update of feature.
- Ip pass through provides flat form for all application which need to talk to third party content providers for information without going through Ford cloud.
- End to end monitoring and observability solution built using Graphana, Prometheus, Splunk, Custom reporting tools. Distributed tracing and tracking of micro services.
- Generation of golden signals for each service.
- **Technology: AWS REDSHIFT, AWS AMPLIFY, SQS, Lambda, AZURE Queues, AZURE Event hub, Azure IOT Hub, App Server, Document DB, Azure SQL, Azure Scheduler, Azure cache. GCP function, GKE**

**Millennium Software Inc. Client Ford Motor Company, Dearborn, MI.**

**May 2014 to June 2015**

**Solution architecture Consultant / Expert**

- Global Order to Delivery program solution architect for global order bank, common vehicle operation services and order entry applications.
- Validate and govern the services required by Order Entry Management Systems.
- Ensure adherence to corporate architecture standards and patterns.
- Expertise in interoperability standards and methods.
- Create and enforce architecture governance processes and conduct architecture reviews.
- Create architecture presentations for senior management.
- Participate and present architecture on Local and Central Enterprise Architecture Assurance (EAA) boards. Created and presented application architecture for DCW, RSW, Technology Integrator, Global Integrator, FAAS, RPMS, FCSD, GOTD applications to Local EAA.
- Creation and review of architecture assessments. Created Architecture Analysis for Global Incentive application system; evaluated North American incentive application suite and European MPS2 application for global incentive solution.
- Responsible for alignment of Solution Architecture in IT practices with enterprise initiatives globally.

- Manage the development of technology cycle plans for the Product Line/Program concentrating on technologies and components that the company has considered to be declining and/or end of life and responsible for identifying the impact of these technologies. For RSW and Hyperion application created technology manifestation.
- Create integrated architecture for RSW, Hyperion and Plains ware applications using DataStage ETL solution and acquire project space in the Data stage shared environment.
- Estimation and acquiring infrastructure on shared, dedicated or virtual environments.

**Technology: Enterprise Service Bus Microsoft Biz talk, Microsoft SQL Server 2012, Java, J2EE, SOAP, REST Services, IBM Data Power, Microsoft Silver light, ETL Data Stage, IBM Mainframe.**

**Strategic Staffing Solutions client BCBSM, South Lyon, MI.**

**April 2012 – March 2014**

**Enterprise SOA Architect**

Role & Responsibilities:

- Responsible for designing and delivering enterprise services. Requirement gathering, analysis, design and governance of business function, composite business process SOAP based web services for multiple protocols.
- Analysis, architect, design and development of complex web services for newly launched BCBSM member portal for member Digital Experience initiative. BCBSM consolidated existing five old portals with a new portal. Services are designed for unique experience for members across multiple channels web portals, mobile portals, IVR, CSR etc.
- Technical delivery of services across multiple projects and programs.
- Making sure solutions implemented for common services adhere to corporate SOA roadmap.
- Design, development and deployment of services of medium to large complexity.
- Deep knowledge of SOA governance activities. XML transformation, service backward compatibility, content-based routing, message transformation and protocol mediation using DATA POWER appliances and Message Broker for ESB functionalities.
- Setting up XML guidelines to follow HL7 guidelines, Schema naming and Service versioning policies.
- Planning, organizing resources ensure project timelines, deliverables and managing interdependency of multiple concurrent projects.
- Project Management experience includes leading small teams in successful systems integration, package implementation, and/or interactive design.



- Knowledge integrating internal applications, integration with partners and building of composite applications using services.
- Services infrastructure design and planning for expected growth and current usage. Performance testing and fine tuning of services for SLA requirements.
- Participate and represent internal Quality Review of services and applications.

**Technology: Visio, Web Sphere Application Server, Share Point, TOGAF 9.1, ADM, Java 1.5, J2EE, RAD 7.5, SOA, XML SPY, SOAP,XML, MQ, WMB, IBM Data Power XI 50, ESB, WS-Security, SAML 2.0, LDAP 6.1,SSO,REST Services, EAI, Gate WAY ESB, Agile, Cruise Control.**

**V2Soft client Chrysler LLC, Auburn Hills, MI.**

**January August 2011 – April 2012**

**Title: J2EE Lead Architect**

Lead J2EE architect for all incentive applications at Chrysler.

**Role & Responsibilities:**

- J2EE Lead Architect: Primary responsibility architecture assessment of unified incentives applications at Chrysler. Eliminate third party components and workflow tool from existing application and use in house and custom-built tools from Chrysler. Integrate fleet incentives into existing incentive applications.
- Define strategic technology direction for Unified process for incentive at Chrysler.
- Integrate fleet and retail incentives.
- Vendor evaluation and selection.
- Existing application architecture design technology evaluation.
- Create technical architecture and assessment documents. Cost analysis.
- Project management, resource management.
- **Technology: Java, J2EE, RAD, SOA, SOAP,XML, MQ, MDB, WS-Security, SAML, Flow Builder**

**Bright WinG client Volkswagen Group of America, Auburn Hills, MI.**

**January 2008 – August 2011**

**Title: Sr. Portal Consultant and Enterprise Applications Architect**

Responsible for leading enterprise applications architecture strategy design and development. Dealer System Integration.

### Role & Responsibilities:

- Portal Consultant / Architect: Primary responsibility for leading, architecture, design, production support, and implementation of the enterprise-wide applications and premier dealer portal for AUDI and VW dealers using IBM Portal, WebSphere Content Management, Portlets, Java and J2EE to replace Vignette.
- Hands-on responsibilities included architecture, design, and implementation of the portal and sub-systems, applying and identifying patterns and best practices.
- Mentored team members on Java/J2EE, architecture, design, patterns and best practices.
- Implementing interfaces to integrate with DMS systems.
- Using DataPower Appliances to achieve corporate SOA goals.

**Technology: Liferay, Web Sphere Portal, JSR 268, Java, J2EE, RAD, SOA, SOAP,XML, MQ, MDB, WS-Security, SAML, Data Power, jQuery**

**Ciber Client Ford Motor Company, Dearborn, MI.**

**2002 June – December 2007**

**Title: Lead J2EE engineer**

### Role & Responsibilities:

J2EE Lead responsible for software architecture, design and implementation of large-scale mission critical enterprise applications using Java and J2EE Platform. Engagements include:

#### **Export Operations & Global Growth Initiatives (E&G)**

- J2EE Software Engineer: Performed a detailed J2EE Application Architecture assessment to identify technical and related problems.
- Performed an architectural assessment of a distributed web site to identify performance bottlenecks due to architecture and implementation flaws.
- Identify and resolve problems related to memory / cache management, threading, and other design issues. Production support of the application.

#### **Order Fulfillment.**

- J2EE Lead for the Single Order Filter project to implement the recommendations and to improve the application quality with regards to the adoption of standards, best practices, and patterns.
- The system catered to the entire Ford organization to facilitate service order management and tracking.
- Performance tuning of existing applications.

- **Ford Financials, Inc.**

- Designer / Developer: Designed and developed eContracting application using Ford Financial frameworks, java and J2EE.
- Mentored the development team in many areas including architecture, Java, J2EE, Patterns and refactoring. Design, development and implementation of the eContracting application.
- Architecture, design and implementation of eContracting solutions to integrate Ford with 3rd party service providers using innovative solutions with emerging Internet technologies.

**Porting Center.**

- Migrated all J2EE applications from WAS4 to WAS5 environment.
- Made sure all applications follow FORD development and build standards. Worked closely with JCOE in resolving many applications, performance and coding issues.

**Concern Driven Reporting.**

- Developer: Participated in architecture, design and implementation of Ford's mission critical Concern Driven Reporting J2ee application.
- CDR was used to track possible safety issues with vehicles in accordance with the Tread Act for Ford Motor Company. The system (application server and rich/web clients) was developed using MVC, Java, J2ee, Db2, Data ware housing.

**Technology: Java, J2EE, RAD, XML, MQ, MDB, Oracle, DB2, Top Link, Struts, MVC, Main frame, CICS**

**CCI, Southfield, MI.**

**1999 – 2002 CCI**

**Programmer Analyst/Consultant**

**Role & Responsibilities:**

- Programmer Analyst: Developed applications using visual basic, SQL server and ASP. Design and development of internal software development center applications.
- Coding, unit testing, System Integration deployment and production support.
- Mainframe COBOL program updates for Y2K. Creating JCL and CICS transactions.

**Technology: Asp, Visual Basic, Java, J2EE, Mainframe, CICS, JCL, COBOL, DB2, MVS.**

**Intertek Limited, Bangalore, India,  
July 1996 – Jan 1999  
Senior Software Engineer/Developer**

**Role & Responsibilities:**

- Senior Software Engineer / Consultant: Served as a senior software engineer for Intertek (a software service company) working on a wide variety of software projects for major clients in Government, Defense and hi-tech sectors using, Java, J2EE, C, C++, COBOL, FORTRAN, Sybase, Oracle, Ingres, Mainframe, Cobol, Db2 etc.

**AWARDS @ FORD:**

- Outstanding employee award 2003
- 2004- 2007-Ciber Distinguished Professional Award
- 2016, 2017, 2021 Ford outstanding employee award

**EDUCATION:**

- Bachelor of Engineering in Electronics and Communication Engineering, University of Bangalore, India 1996
- Graduate Studies in Computer Science, Lawrence Technology University, MI 2002-2003.

**CERTIFICATIONS**

- AWS Certified Solutions Architect – 04/24
- Sun Certified Web Component Developer – 08/03
- Sun Certified Java Programmer 2.0 – 07/01
- E-Certification Java Programmer; Sun Microsystems – 07/01
- Liferay Portal 01/24/11

**TRAINING**

- TOGAF Training – 1/15/2013
- IBM DataPower appliances 12/01/10
- SQL Administration 7.0; New Horizons – 05/03
- Silverstream, E-Portal, Java and X-Commerce – 08/02
- IBM Mainframe; IBM Authorized Center, India – 08/98