**Ashoka Mahadevaiah**

**Solution architect, Tech Delivery lead and developer**

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Ashoka is a **certified Accenture technology architect, hands-on development lead and delivery lead, MEAN stack trainer** with more than **18 years of experience** in providing solutions to build decoupled, scalable, fault tolerant, secure enterprise systems using domain driven design, micro frontend, microservices, REST APIs, message queues, integration brokers and other integration patterns, NoSQL & SQL databases, event driven architecture, DevOps and CI/CD model. Experience in defining system architecture using propriety and open-source components. Experience in implementing **localized content-based web applications**. Experience in DevOps, CI/CD and Safe4 Agile practices.

Ashoka has 5 years of experience in **JAVA stack with AWS and PCF cloud**, 5 years of experience in **MEAN stack with PCF cloud** and 10 years in .NET stack with On-premises infrastructure.

Ashoka has taken delivery responsibilities as part of several scrum teams. Prior to agile methodology I have experience in leading a team of 45+ team members for a large project based on waterfall methodology

**Technical Skills Summary**

* **Last 15 months on API modernization use case using Amazon cloud with openapi 3.0, swagger hub, canonical modelling, OAUTH 2.0 with hydra, NGINX, REST APIs, AWS R53, API gateway with API key and usage plans, ECS, EC2, S3, Step functions, lambda, SQS and SNS, NodeJS, Java 8, spring boot, CloudWatch, Kibana, App dynamics, Redis, DynamoDB, oracle DB, Postman, Gitlab, Docker,**
* 6+ years in JAVA stack with **Angular, Spring boot for APIs**, oracle DB and Rabbit MQs with DLQs, Spring Security, Maven, Mockito, SonarQube.
* 7+ years in MEAN stack (MongoDB, Express, Angular, and **Nodejs**), RxJs, Angular Migration, APIs using node and MongoDB
* 10+ Years in .NET stack with C#, ASP.NET, Web APIs, MS-SQL, .NET core
* UI – **Micro frontend architecture** with Angular 4 to 9, JavaScript, **ES5 & ES6**, ASP.NET, Bootstrap, responsive design. **Reactjs** familiarity
* Database – MongoDB, MS-SQL, Oracle, DynamoDB.
* Arch. & Design patterns – Microservice, Micro frontend, REST APIs, 12 factor cloud native app, Distributed caching.
* Security – Good Experience in using security for internal and external clients using OAUTH 2.0 and SiteMinder Authentication techniques and Authorization.
* Automation – Experience with home grown automation frameworks using selenium, postman, Newman, Karate APIs
* Tools – App Dynamics, KIBANA, Jenkins, Gitlab, GitHub, Gitflow, IDOL, **Teamsite**, Coherence Cache, Coremetrics, Greylog, PCF cloud, UCD, Selenium
* **Trained in Openshift and AWS, certification in progress**

**Agile Project management skills**

* Experience in Safe Agile based project execution, team management and project report management for than 10 agile projects
* Experience in Agile methodologies to maintain a **strong focus on delivery priorities**, holding others accountable for delivery, and swiftly responding to changing requirements.
* Assist in **feature and capability estimation** at program level and scrum team level to facilitate economic decisions to manage budget, scope and delivery of the solution of a large multiyear development program.
* Experience in leading, advising, and mentoring diverse teams in **technical and functional delivery aspects** in more than 10 projects using influence and adaptive communication strategies
* **Lead and Coordinate design and development activities at onshore and offshore**, assign and oversee their job duties, as well as review their work daily. Cross trained several team members on new technologies, make managerial decisions regarding staffing needs and term of team members within scrum team.
* **Establish critical NFRs(nonfunctional requirements) at solution level**. Suggest, own and execute Architecture runway work, technical design work and feature stories for complex features for each program increment.
* Track project progress in Rally, **Dependency identification and management**, bring the best out of each team through continuous mentoring and feedback cycles.
* Deliver using best practices for enterprise architecture functions such as Security, Performance, Development Process, and Application Governance
* Identification and pro-active management of risk areas and commitment to seeing an issue through to complete resolution
* Contribute to enterprise standards on application and integration development best practices, functional and technical solution architecture & design, environment management, testing.
* Prepare and Present **monthly governance deck to client leads having metrics about project delivery and resource plan, risks and issues**.
* Hire skilled resources, manage their performance (objective settings, feedback and appraisal).

**SDLC Project Management skills ( prior to 2014 at Offshore)**

* Managed end to end delivery of an SDLC project supervising a team of 45 people which involved Plan, Design, Build, Test, Training, Deploy and Application support for coke client for a large development program involving 10 applications and 80+ services integrating to SAP module.
* Managed response to few RFPs with phase wise estimation, resource plan and cost calculation.
* Prepared and managed overall project plan, work distribution, and daily status reporting to senior leadership (clients, deputy CIO)
* Controlled project execution and met delivery timelines by controlling scope and budget for each phase. This involved identifying, reporting and managing risks and issues with relevant stake holders on a daily basis.
* Extensive experience is prepare staffing plan based on project needs and hire right skilled resources(dev, test), build team pyramids and manage ramp-up and ramp up down strategies. Also managed their performance (objective settings, feedback and appraisal).
* Played role of account executive for DELL staff augmentation account, established and managed relationship with more than 10+ client mangers and lead staffing effort which resulted in growth of the account from 4 member to 55+ members and resulted in huge revenue growth. This involved defining and managing a robust staffing process involving resource supply teams, vendor teams, HRs and clients.
* Overall I have been a development lead for more than 5 SDLC projects.

**Education**

Bachelor of Engineering in Computer Science & Engineering, Bangalore University.

**Work Status**

Green Card holder (issued this year) with validity up to August 2031.

**Selected relevant experience**

* Ashoka has spent last 15 months on **API modernization program to build API foundation pieces at enterprise level to be used across 3000+ APIs.** Partnered with client architects to implementauthentication using OAUTH 2.0, authorization for internal and external clients **(B2B, B2C clients, 3rd party aggregators) using consent, policies and entitlements,** reference architecture for building experienced APIs using canonical modeling, supporting OMNI channel design and API design standards. Other API security using API keys and Usage plans. Used various API integration patterns across value streams using NGINX and R53.
* Proficient in design and implementation APIs using different technology stacks like nodejs with mongodb, springboot with oracle db or dynamo db, AWS lambda, API gateway and many API integration patterns.
* Experience in implementing batch process using S3, lambda, SQS and step functions with error handling and fault tolerance.
* Implemented FDX-api 4.5 spec <https://financialdataexchange.org/FDX/About/FDX_US_FAQ.aspx>, the public api specification for empower financials to securely share 401k account data to 3rd party aggregators like mint.com or yodlee.com
* Owned and driven design and implementation of API Authorization for internal and external clients **(B2B, B2C clients)** forsharing data securely with zero trust policy **using consent flow, policies and entitlements setup.**
* Experience in implementing API security using lambda custom authorizer, **OAUTH** hydra implementation, API keys and Usage plans. Publishing APIs to **API marketplace** with mock data setup, Synthetic monitoring, Error handling, logging and tracing.
* Co-ordinated for **API performance** testing, analysis and identification issues related to CPU bound or Memory bound and configuring EC2 accordingly.
* Lead 7-member team in redesigning and development of complex billing systems involving **3 micro frontend user interfaces (Angular based) and 30 plus microservices(Java spring boot, REST API)** with respective **oracle databases and Rabbit MQs.**
* Proficient in design and development of **fault tolerant batch systems to address recoverable and non-recoverable messages** using various Java spring boot API components, rabbit MQs message patterns with dead letter queues, **retry and restart capability** with state management techniques, alerts, email notifications, autosys jobs and reconciliation process.
* Lead redesign and development effort for modernization of employee portal called inside for traveler’s insurance client, which won the **Neilson Norman award** across globe for year 2018 <https://www.nngroup.com/news/item/2018-intranet-design-awards/>
* Designed intelligent search capability across regions using weighted, localized, biased patterns of IDOL tool.
* Extensive design and development experience in dynamic content driven **globalized website** development using content management tool like TeamSite, **coherence caching** techniques, custom bootstrap framework using JavaScript(ES6), APIs developed in .NET Web APIs, 6 microservice from scratch based on **node and mongoDB** with complex query requirements.
* Experience is designing **508 compliant and localized multilingual applications** based on i18n framework and ASP.NET globalization and localization patterns.
* Experience in implementation of public facing retail insurance applications like travelers.com, MyT-BI, MyT-Bond based on various technology stack like MEAN (**Mongo, Express, Angular and Node** ) stack, .NET APIs, **content management using** **TeamSite**, intelligent search capability using **IDOL search** engines and PCF cloud
* Extensive experience in **TDD and unit testing** frameworks across technologies like Angular, JavaScript, java, .NET
* Experience in test **automation using selenium** and saved cost by identifying early automation areas.
* **Conducted Hands on training** for more than 100 Plus people across various batches on MEAN stack.
* Experience as **solution architect** for a large integration project having 10 applications and 80+ services having a team of 45 and 20 people in two separate engagements at offshore based on waterfall methodology
* **Experience of working at various client locations like UK, Canada, Mexico, India, USA for various clients like Travelers Insurance, BMW, DELL, AMEX, Genworth Etc.**
* Driven SVN to github migration by advocating right **branching and merging strategy** using github across department for 60 plus repos accommodating parallel development, short term and long-term milestone releases. Established standards for release and labelling process in github.

**Summary of Work Experience**

* Accenture LLP: Apr 2009 to Till Date
  + Empower Retirement, Denver (Onshore)- 15 months as API Lead Developer
  + Travelers Insurance, Hartford (Onshore) – 5+ years as Solution Architect, App designer and lead developer
  + BMW, Ohio (Onshore) – 7 months as solution architect on legacy modernization
  + Coca-Coal, Bangalore (Offshore) – 1 year as Solution architect, 45+ team size
  + DELL Inc, Bangalore (Offshore) – 3.5 years as lead engineer on various projects
* Satyam technologies: Mar 2007 to Apr 2009
  + FORD(Onshore), Genworth (Mexico)
* Infosys Technologies
  + AMEX (UK) – As Tech lead & developer

**Project experience:**

* **API Foundation Program at Empower** – Implemented experienced APIs like disbursement status-api, balance-api, FinancialDataExchange-Api. Addressed Authentication, Authorization, Consent, polices and entitlements with API key and usage plans, includes AWS cloud stack with node, java springboot and oracle.
* **Tracer Rewrite** – Tracer (Travelers’s claim Expense recovery) is a billing tool available for loss sensitive programs utilizing the electronic banking process (EFT) and wires used to pull loss activity and a certain type of claim handling. Angular, Java spring boot, Nodejs, mongo DB, RabbitMQs.
* **MyT customer portal** – This application facilitates customers(insurers) to maintain their accounts and policies without involving their agents or sales centers. Customers can view their registered insurance policies, manage claims, billing and view summary of all insured policies. It severs as a hub to connect personal insurance and business insurance users to related applications within travelers, including claims, billing, premium audit, and risk control. The portal appears to users as one integrated system. This involved technologies like Angular, Nodejs, mongo DB
* **Inside Rewrite application** – Worked on new development project to rewrite employee portal, an old legacy application. The work involved re-design and re-architecture with technologies like ES6, C#, ASP.NET MVC, node, mongo, python. The Aim was design a localized intranet portal to provide personalized, content driven (using TeamSite) application, intelligent , localized , biased search capability using IDOL search tool. Extensive caching techniques used performance gains. Implemented SiteMinder authentication. The project also involves UI technologies from UI team with custom responsive design framework with ES6 and unit testing with chai framework.
* **Travelers internet website** – Travelers.com and tarvelers.co.uk is a public facing site to show all insurance products where a public user can choose the product to buy and get redirected to purchase application. I worked on this product for 4 months on UI technologies like core metrics implementation, enhancements and google double click integration issues. Also worked on design of enterprise level microservice for search capability at enterprise level.
* **Personal Insurance business** involves generating insurance quotes and issuing policies for various products like Auto, Home (Condo\Dwelling\Renter), Umbrella, Personal Articles, Boat, Yacht.  
  1) PI Ad server migration program: This program is about replacing existing ATLAS product with google double click product to manage digital marketing. The new product provides effective campaign management, monitoring, tracking, and reporting.   
  2) Digital Onboarding program: Deliver an online new business experience to simplify purchase confirmation, self-service registration, electronic signature and submission of proof for credits across products and distribution channels in order to improve retention, improve operational efficiency, and decrease loss exposure. This project impacts more than 40 systems and various services. The changes are implemented in 3 phases.
* **BMW Contract management System**: I worked as application technical delivery manager to rewrite old legacy windows application which manages BMW vehicle contract management (booking vehicle, manage payments, provide service, Mange end of the term). The new implementation will be done using web technologies like angularjs , internal UI framework(CAMBER), internal service framework(MADCOWS), also involves integrating with SAP for managing payments module and Siebel for managing customer and dealer information and various workflows. The design should also address scaling the application to multiple markets (Mexico, Brazil, USA, CANADA)