**MAINAK BISWAS**

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**Hands on, client facing, Azure, AWS cloud, Container Expert.**

Senior SA, DevOps, Author, 18+ years IT industry experience

TOGAF 9, AWS,OCMJEA, Oracle SOA, PRINCE2, ITIL

**Core value addition:**

Expert in motivating and mobilising teams across very large dynamic organizations to effect and lead very complex business and IT landscape changes.

**Business transformations:**

Create reference architecture for DevOps based on Azure technologies.

Conduct DevOps Value Stream Map exercises.

Rolled out multiple key solutions for Royal mail, Dovetail, GTech (IGT) and Monitise

**Worked with CTO, Head of IT and Head of Service Delivery** and Business sponsors.

High degree of solutioning expertise, commercial knowledge, client/stakeholder management skills.

Ensure regulatory, financial, PCI-DSS, GDPR and industry compliances.

Create, approve client facing documents **SOW**, SLA, MSA, **RFI/RFP, pre-sales** and bid management.

**Lead multiple SA’s, TA’s, BA’s,** onsite/offshore dev teams.

100 % client facing and strong supplier management skills. (e.g., HCL, Capgemini, ATOS)

**Achievements:**

* 2019 – Lead SA for multiple RMG projects with project profit of ~12 M GBP.
* 2018 - Delivery of Carrier Management Dashboard – [Feedback from business sponsor](http://royalmailintlcomms.newsweaver.com/internationalupdatenewsletter/18rzqiowwsod3s7ttn2omp?a=2&p=2130858&t=724)
* 2016 – Published book “[Design Patterns – A domain agnostic approach](https://www.amazon.com/Design-Patterns-domain-agnostic-approach/dp/1523481765)”
* 2015 - Flagged a serious authentication flaw in existing systems, saving the client from **costly regulatory compliance failure** and loss of brand value.
* 2011 - Performance engineering for Lopromo results in **600% improvement**.
* 2008 - **“It still works perfectly”** – Henrik Starheim’s (Manager, Telenor) comment in 2011 for project architected during 2008 in Sweden. After 3 years, post production, the system still perfectly ran with only 0.5 FTE / week dedicated towards its maintenance!

**Multiple domain experience:**

* **Logistics and E-business** experience with Royal Mail
* **Finance / Payments** - SEPA SCT, SDD, SWIFT and EBA, STET, EQUENS clearings.
* **Gaming domain** experience with GTech (IGT).
* **Mobile apps**, **Retail integration**, Android and IOS, USSD.
* **Telecom** experience with Nokia voucher handler, **E-business, Airline** ticket booking with SITA.
* **Smart metering** experience AMI, Itron, Landis+Gyr Meters, Zigbee, Retail and Energy trading

**Solution Architect, DevOps experience:**

* **Client landscape workshop and whiteboarding.**
* Roadmap, **technology approval**, **EA governance.**
* **Ensure architectural principles**, policies and patterns.
* **DevOps architecture redesign, DevOps-as-a-service, DevOps tooling, Value Stream map.**
* IT architectural assurance, **full ownership of multiple projects**, from solution to engineering.
* Expert IT architectural knowledge solution QA, **approving** supplier work, HLD and LLD.
* Create **SAD, ER design and TOGAF views**.
* **Onboard, mentor guide new SA’s, TA’s. Part of recruitment teams.**
* **Release management – Make releases, monitor pipelines continuous integration, delivery.**
* **Creating high level designs for CR’s**, presenting them for internal and external review.
* Ensuring optimal branching strategy as required by client and product requirements.
* **Lead multiple teams to finalize design**, facilitate technical decisions and pursue for fix by teams
* Part of Production Rota and **Devops teams**; address performance bottlenecks.

**Technology:**

* **Azure** – AKS, ACR, ADO, ADO Git, ADO Pipelines, AAD, Docker, Kubernetes, Helm
* **Java / J2EE / EAI, ESB, JMS**, Enterprise Integration Patterns. microservices
* SDLC – GIT, Mercurial, Tortoise Workbench, Fisheye, Crucible, Gerrit, Unix scripting and Putty.
* SOA – Oracle SOA Suite, **SOA**, Webservices, REST, WS-\* Specifications, API
* Integration – Mule, Anypoint Studio**,** Fuse, Camel, MSMQ, Oracle B2B, Mediator, OSB, ODI.
* Cloud - Multitenant private cloud, **AWS cloud certified**.
* Networking, Operating System, Virtualization and Cloud technologies.
* Oracle - **Oracle Fusion 11g,** AIA, Oracle DB 11g, Websphere MQ, SaaS, AWR reports.
* Server – Weblogic 12g, **Websphere** 8.5.5.x, TomEE, JBOSS.
* Database – IBM DB2, MsSQL, Aurora, **Memcache**, Redis, Oracle, MongoDB
* Design - DDD, OOAD, ER diagram, SAD, HLD, XML Spy, Sparx EA, UML, **Archimate**
* Methodology – 4+1 , **Agile**, **Scrum**, RUP, Waterfall; Delivery and full SDLC experience

**Work experience:**

**DevOps Architect, Presales– Icon Solutions – London – Sep 2019 – till date**

**Azure, AKS, ACR, ADO, Kubernetes, Helm, Docker, Service Now, Artifactory, Ansible.**

Responsible for converting existing DevOps expertise into a value proposition and create Value Stream Map and Accelerators. This involved

* Architect the present DevOps pipeline using Azure technologies.
* Create the Value Stream Map for existing practices.
* Creation of the design for the generators to provision infrastructure with full automation.
* Creation of the reference architecture for DevOps based on AKS and Azure technologies.
* Guidelines and integration with SAST, DAST and SCA tools.
* Design the integration with Service Now.

**Lead Architect – Better Energy – Nottingham – July 2019**

**Java 8, Bouncy Castle, PKI, ECDSA, Elliptic curve algorithms, Keytool, JCA.**

Developed code to complete the SREPT registration process for Better Energy with DCC. Developed code to generate proper keys to use in CSR. Use SSL Code signing certificate obtained from DCC.

Use ECDSA Key generation algorithm for creating PKI keys. Install tools and process for storing the keys. Use the ECDSA Signature to sign the Device Signing Requests.

**Lead Solutions Architect, Manager, four projects – Royal Mail – London – May 2017 – till date**

**EDIFACT Compliance** - WebSphere MQ, IBM IIB, TIBCO, EDIFACT, XML, XSLT, XSD,

**Verification Notes** – Azure, Oracle DB, GDPR, .NET, Angular JS.

**IPS** – Java, .NET, REST/JSON, XB62, ESB, Oracle AQ, OCR.

* Deliver multiple solutions enabling saving of more than **12 M £ for RMG.**
* Technology selection, lifecycle costing, Azure vs AWS.
* Make sure SAD, HLD conforms to architectural principles, policies and patterns.
* **Handle work with multiple SA’s, Tech leads and onshore dev team size about 60**.
* Create, assure, govern end to end solution of multiple projects.
* Prepare project costs, approve solution decisions.
* Lead team for solution with **workshops**, whiteboarding**, chair meetings**.
* Approve supplier designs, API definitions, REST specs.
* Take them through various gating process and ensure business compliance.
* Manage multiple key suppliers.
* Creation of multiple architecture documents. SAD, HLD, NFR and TRAM.

**Solutions Architect, Release Manager – Dovetail Systems – London - Nov 2015 – May 2017**

**Technology** – Java, SOA, Webservices, REST, Websphere, Oracle RAC, RHEL, Agile Methodology.

INGC (SWIFT, EQUENS, STET, SEPA clearing channels), HSBC (Rulebook change for SEPA)–

* **Release management**, configuration management of many interim and production releases.
* Full stack Devops – Dev, test, monitor regression, Jenkins, triage issues, make releases.
* Client calls, workshop, triage meetings, release calls, weekly calls.
* Product branching strategy, product roadmap aligned to releases and expectations of the client.
* Team mentoring and recruitment
* Solution design for 4 major CR’s, perform code review.
* **Oracle 11g Performance optimization**

**Solutions Architect, Development manager – GTECH (IGT) – London - Dec 2013 - May 2015**

**Technology** – SaaS, Cloud, Java, SOA, Mule, Oracle RAC, Datapump, RHEL, Weblogic, SSADM, Agile Methodology.

* Worked very closely with CTO and head of architecture.
* Architectural workshops, Presales, platform product road map.
* Leading solution architecture for Betfred and overseeing issues in other projects.
* Achieved high level design and delivery of multitenant cloud gaming enterprise platform.
* Data migration planning and execution using ODI. Assist in ER diagrams creation.
* Manage / guide application development, application migration with development teams.

**Lead Solutions Architect, Enterprise Architect – Monitise PLC – London - Jan 2012 – Dec 2013**

**Technology** – SOA, SOAP, REST,Oracle RAC, Datagaurd, Glassfish, DB2, JBoss Fuse, Camel, Talend, Sparx Enterprise Architect, Archimate, DDD, Agile Methodology

* **Visa US** - Completed enterprise solution design within very tight deadlines business process for VISA credit card within Monitise platform using Sparx EA. Four key areas viz., Banking and Integration, Batch processing, Push Alert, Administration and Reporting were completed.
* **Visa India** - Movida - Solution design for USSD based mobile application.

**Solutions Architect - NIIT – London - Oct 2011 – Jan 2012**

**Technology** - Oracle SOA Suite, WS-\*Specs, SAML, Oracle OSB, Coherence, BPEL, DB 11g , Websphere MQ,

Client SITA – Voyager – SOA based product suite for airline industry, Agile Methodology

Mainak is responsible for enhancing the functional use cases, modify web service definitions and create processes for versioning management of technical artefacts.

**Senior Consultant – Capgemini - France, Sweden, Australia, India - Jul 2006 – Jun 2011**

**Technology** – Oracle Fusion Middleware, Oracle EBS Adapters, Oracle CC&B, Oracle AIA, Weblogic 10.3, Saturne, Itron IEE, MSMQ, WSDL, Mule ESB, BPEL, EDIFACT, SAP, PI

Smart Metering, AMI, Itron meters, Formulate integration strategy of Saturne for new meters, concentrators. Acquire and develop comparative analysis of various head end solution.

*Lead architect for Telenor* delivered key project using J2EE, JBoss, Memcache, JProfiler, Hibernate, MySQL, Open Source, EDIFACT, Java SE6, Bouncy Castle, Memcache, MySQL, Hibernate and Spring on JBOSS.

*Lead architect for Baycorp (Veda)* using IBM Trivoli TIM, TAM, JSP, Quipoz, J2EE, DB2, WAS, RUP, Websphere MQ, CICS.

**Team Lead – Cognizant - UK, India - Feb 2004 – Jun 2006 -** WEX US, GTA US (Retail), OAG UK.

**Developer - Computer Associates and two other companies – India - Aug 2000 – Feb 2004**

**Education** – Throughout first class,

MBA with Distinction from University of Aston,

Masters in Engineering from Indian Institute of Science, Bangalore.

BSC Physics, Honours, from University of Calcutta, India.

**References** – Most are available publicly on LinkedIn and on request.