Soumyak Bhattacharyya

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**Technologies & Languages**

* Java, Spring, JPA, QueryDSL
* Oracle, MySQL, DynamoDB, SQL
* Jenkins, Docker, Git, Maven, Sonar, Terraform, CD Pipeline
* AWS Services (Lambda, ECS, Step Function, SNS, SQS, DynamoDB, APIG, Cognito, Textract, Comprehend, Lex)
* Web App, Chatbot & Serverless Solution Design, Engineering Best Practices, Patterns, Testing and Security

**Work Experience**

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| **Practice Head** | **Rubicon Red** | **Jul 2018 – Present** |
| * **FSSA** – Led a team of 3 engineers to deliver an Oracle Digital Assistant based chatbot solution for University of Adelaide, which has digitized 4 specific services completely to support all future student inquiries. Apart of I built entire Oracle cloud infrastructure using Terraform (Oracle Digital Assistant, Node.js, MySQL, Docker, Jenkins, Terraform, Oracle Cloud Infrastructure, Botium) * [**Intelligent Automation (Document Processing)**](https://www.rubiconred.com/intelligent-automation) – Led a team of 3 engineers & collaborated with Amazon consultants to deliver Intelligent Document Management solution which is a first of its kind application that simplifies processing documents through application of AWS Textract and AWS Comprehend to perform OCR. The solution introspects and finds data from documents (PDF, images) and transform that into machine consumable format. The solution is expected to reduce 50% of the manual effort that the customer spends now. (AWS Lambda, Aurora, Step Function, SNS, SQS, DynamoDB, APIG, Cognito, Textract, Comprehend) * **Coex** – Led a team of 10 engineers to deliver 3 portals of [Coex](https://www.containersforchange.com.au/qld/) project that helped in recycling 4 billion containers, till date, in Queensland, AUS; wrote highly efficient invoicing engine to process 50k payment requests per day; the team under my leadership implemented well designed, documented and tested ~50 REST APIs, ~30 Angular based UIs and built integration with Oracle Integration, Process and Identity Cloud Services; used Jenkins to implement CD pipeline and Docker + Docker Swarm to scale the solution. (Angular, Java, Spring, JPA, Oracle, Docker, Jenkins) * [**QUT Q**](https://chatbot.qut.edu.au/)– Led a team of 3 engineers to deliver an Amazon Lex based chatbot solution for Queensland University of Technology, that has resulted into a cost reduction of 80%; the solution reduced human effort required, roughly by 50%, to answer queries around admission procedure (AWS Lex, Lambda, ECS, DynamoDB) * **AskQUT –** Leading a team of 4 engineers to implement an email classification solution for QUT using AI/ML services from AWS and the Serverless services from AWS to reduce manual effort needed to classify emails by 80% (AWS Lambda, Step Function, DynamoDB, API Gateway, Comprehend) | | |
| **Engineering Leader** |  | **Jun 2015 – Jun 2018** |
| * **MyST** **ARM** – As Engineering Leader, led a team of 10 engineers and drove design activity of various component of the product named MyST. I played the role of architect of the Application Release Automation feature and developed first version of the Release Pipeline architecture. I guided the team to deliver 200+ features in a span of 3 years for a customer base consisting of banks, Australian government departments etc. During this period of time, I recruited a young batch of software engineers and grew them to be exceptional at delivering quality outcome. I have been passionate about DevOps, and been a thought leader in the organization helping other part of the workforce to provide strategic and technology consulting to customers. The solution is a commercial success. During my stint the revenue earned by the product grew 2X times, customer base grew by 40% and defect reduced to 60%. (Java, Spring, Docker, Jenkins, Maven, AWS EC2) | | |
| **Principle Consultant** |  | **Jun 2014 – May 2015** |
| * **MyST Cloud Control** - As Principle Engineer, I was responsible to deliver initial version of infrastructure provisioner component of MyST. As IC I designed, developed, tested and released API layer of MyST. I collaborated with onshore and offshore team. The outcome was highly appreciated in Oracle OpenWorld 2014 where the product was launched. My earlier experience at Cognizant while building Build - as a Service, came handy while designing the solution. (Java, Spring, JCloud, Neo4j) | | |
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| **Technical Architect** | **Cognizant** | **Oct 2011 – May 2014** |
| * **Build as a Service –** As Technology Architect for Global Technology Office of Cognizant led a team of 5 developers to design and build a Release Management Platform that was offered as a SaaS product. I extended open source Jenkins CI server to customize it’s plugin and core component’s behavior. The solution helped at least 5 BFS account to be able to embrace CD for their projects without any significant upfront cost. (Java, Jenkins) | | |
| **Senior Associate** |  | **Jul 2010 – Sep 2011** |
| * Delivered an interface solution to bridge between .Net stack and AS400 iSeries backbone. | | |
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| **Information Technology Analyst** | **Tata Consultancy Services** | **Sep 2004 – Jun 2010** |
| * **CTMIS** - Worked as module lead for Comprehensive Treasury Management Information System (CTMIS) - a flagship project developed by Government solution vertical of TCS. The solution aimed at providing automation around state government treasuries of India. The solution comprised of two parts, a treasury management system and a state government employee paybill generation system, with which I was deeply involved. The result was phenomenal, as the GDP of State of Bihar was increased to 11% where national average was 7%. | | |

\* Apart from these documented projects, I have been involved in consultative capacity with another 5 initiatives.

**Education**

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| **University of Kalyani** |  | **2000 – 2004** |
| * B.Tech in Electronics and Telecommunication Engineering (85%) * Topped university in 3 semesters | | |
| **St. Lawrence High School** |  | **1998 – 2000** |
| * + 2 PCM (80%) | | |
| **Pathabhavan High School** |  | **1990 – 1998** |
| * Secondary (83%) | | |

**Functional Skill**

* Strategy
  + I have been instrumental in defining and operating around the organizational vision about AppDev practice. Being a long term planner and thought-leader, I have been able to help organizations to join the dots and come up with innovative service offering. I have built teams and practice from scratch - by recruiting, upskilling, delivering assignment with the team and winning new opportunities.
* Business Development
  + I deliver RFPs, Proposal and presentations on offerings, capabilities and case studies to bring awareness to the customer about the current business. I am responsible for business development and growth both with existing customer and new customers and am involved in Presales activities for the business growth.
* Delivery Execution
  + I deliver large enterprise web/chatbot application while staying involved in all the phases of SDLC. I provide program/portfolio metric to executive leadership and CEO to help us measure delivery efficiency, quality and performance of the projects. I am consulted while defining the budget, resource allocation, scheduling, risk and execution model. I directly manage departmental resourcing, staffing, mentoring, and enhancing & maintaining a best-of-class solution development team.
* Technology Leadership
  + I grew up as an open source developer and am still very strong on topics like object oriented design, Java, design patterns and algorithm. I design, develop, test and deliver software solution using following - Spring; Hibernate + JPA 2; QueryDSL, Git, Jenkins, Sonar, Docker & IaC solutions, Oracle, MySQL and Elasticsearch. I am an analytical thinker who consistently resolve ongoing issues or defects, often called upon to consult on problems that have eluded resolution by others. I have self-taught in Python, Panda, Numpy, Matplotlib, Business Statistics in order to be able to go to the next level of learning Machine Learning algorithm. I am in a process of getting certified in AWS and am a certified Cloud Practitioner.
* People Leadership
  + I build teams and exercise servant leadership. As a follower of Simon Sinek I believe that we can build inclusive culture that would inspire people to come to work and succeed.

**Certification & Volunteer Work**

* AWS Certified Cloud Practitioner
* **Co Community Lead** for Jenkins CI server Hyderabad chapter; I built up a local community of people who were passionate about DevOps, organized 10+ events.
* **Blogs** I wrote
  + <https://www.rubiconred.com/blog/event-storming>
  + <https://www.rubiconred.com/blog/the-key-role-of-api-testing-explained>
  + <https://soumyakbhattacharyya.github.io/>