LinkedIn

Language, Framework, Platform & Technique

- Java, Spring, Hibernate, JPA, QueryDSL
- Oracle, MySQL, DynamoDB, SQL, ElasticSearch
- Jenkins, Docker, Git, Maven, Sonar, Terraform, CD Pipeline
- AWS Services (Lambda, ECS, Step Function, SNS, SQS, DynamoDB, APIG, Cognito, Textract, Comprehend, Lex)
- REST API, Web App, Chatbot & Serverless Solution Design, Engineering Best Practices, Patterns, Testing, and Security
- Agile SCRUM & KANBAN, BDT (Cucumber)
- Foundational knowledge of Data Science (Python, Panda, Numpy, Matplotlib, Machine Learning Algorithm, Text Mining, Deep Learning Basics)
- Foundational knowledge of Snowflake

Patterns

- Strong understanding of
 - GOF & SOLID design patterns
 - Cloud Native design patterns
 - ETL patterns
 - Real Time Data Ingestion patterns
 - Data Warehouse concepts

Work Experience

Practice Head Rubicon Red Jul 2018 – Present

- FSSA Led a team of 3 engineers to deliver an Oracle Digital Assistant based chatbot solution for the University of Adelaide, which has digitized 4 specific services completely to support all future student inquiries. I built the entire Oracle cloud infrastructure using Terraform.
 - Technologies Oracle Digital Assistant, Node.js, MySQL, Docker, Jenkins, Terraform, Oracle Cloud Infrastructure, Botium
 - Contributions
 - Developed solution architecture
 - Designed domain model & relationship
 - Designed data loading and unloading algorithm
 - Provisioned Infrastructure as code
 - Delivered engagement
- Intelligent Automation (Document Processing) Led a team of 3 engineers & collaborated with Amazon senior consultants to deliver the Intelligent Document Management solution which is a first-of-its-kind application that simplifies processing documents through the application of AWS Textract and AWS Comprehend to perform OCR. The solution introspects and finds data from documents (PDF, images) and transforms that into machine consumable format. The solution is expected to reduce 50% of the manual effort that the customer spends now.
 - Technologies AWS Lambda, Aurora, Step Function, SNS, SQS, DynamoDB, APIG, Cognito, Textract,
 Comprehend
 - Contributions
 - Developed solution architecture
 - Developed data extraction algorithm from PDF document
 - Developed cloud event model for the solution
 - Delivered engagement
- Coex Led a team of 10 engineers to deliver 3 portals of Coex 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 an integration with Oracle Integration, Process, and Identity Cloud Services; used Jenkins to implement CD pipeline and Docker + Docker Swarm to scale the solution.
 - Technologies Angular, Java, Spring, JPA, Oracle, Docker, Jenkins)

- Contributions
 - Designed technical solution architecture, algorithm and data model for 'Payments Engine' module
 - Designed authorization framework
 - Delivered phase#2 of the engagement
- QUT Q Led a team of 3 engineers to deliver an Amazon Lex-based chatbot solution for the Queensland University of Technology, which has resulted in a cost reduction of 80%; the solution reduced human effort required, roughly by 50%, to answer queries around admission procedure.
 - o Technologies AWS Lex, Lambda, ECS, DynamoDB
 - Contributions
 - Migrated old version of the bot into AWS Lex based solution architecture
 - Established the data model for the solution
 - Delivered engagement
- 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 the manual effort needed to classify emails by 80%
 - o Technologies AWS Lambda, Step Function, DynamoDB, API Gateway, Comprehend)
 - Contributions
 - Developed solution architecture
 - Trained the AWS Comprehend based model
 - Developed the data model for the solution
 - Delivered engagement

Engineering Leader

Jun 2015 – Jun 2018

- MyST ARM As Engineering Leader, led a team of 8 engineers and designed Application Release Management feature sets of MyST. I wrote the Release Pipeline framework. I guided the team to deliver 200+ features in 3 years for a customer base consisting of banks, manufacturing companies, and government departments. During this period, I recruited a young batch of software engineers and grew them to be exceptional at delivering a quality outcome. During my stint the revenue earned by the product grew 2X times, the customer base grew by 40%, and defect reduced to 60%.
 - o Technologies Java, Spring, Docker, Jenkins, Maven, AWS EC2
 - Contributions
 - Developed Release Pipeline abstraction.
 - Designed and enhanced relevant data model.
 - Enabled team to deliver features per sprints.

Principle Consultant

Jun 2014 - May 2015

- MyST Cloud Control As Principal Engineer, I wrote the infrastructure provisioner component of MyST using <u>TOSCA</u>.
 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 in handy while designing the solution.
 - o Technologies Java, Spring, JCloud, Neo4j
 - Contributions
 - Implemented REST API and data model
 - Implemented overall solution.

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 the open-source
Jenkins CI server to customize its 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.

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 the 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 pay bill generation system, with which I was deeply involved. The result was phenomenal, as the GDP of the State of Bihar was increased to 11% whereas the national average was 7%.
 - Technologies Java, Spring, Struts, EJB Session Beans, Hibernate
 - Contributions
 - Designed pay bill generation module from scratch

- Designed REST API & data model
- Drove the team to deliver the solution
- Implemented the solution at customer site

Education

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 part of the leadership group and co-authored strategies around growing business. Being one of the
 earliest employees at the India center I had the rare opportunity to participate and observe what it takes to build a
 delivery center from scratch.
- Business Development
 - o I have delivered RFPs, Proposals, and presentations to prospective customers about current services/products. I have been accountable for business development while supporting Presales & marketing activities.
- Delivery Execution
 - I have been part of teams that delivered large enterprise web/chatbot applications while staying involved in all the phases of SDLC. I provided program/portfolio metrics to executive leadership and CEO to help us measure delivery efficiency, quality, and performance of the projects.
- 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 solutions using the following Spring; Hibernate + JPA 2; QueryDSL, Git, Jenkins, Sonar, Docker & IaC solutions, Oracle, MySQL, and Elasticsearch. I am an analytical thinker who consistently resolves ongoing issues or defects, often called upon to consult on problems that have eluded resolution by others. I am AWS Certified Cloud Practitioner.
- People Leadership
 - o I have built the practice from scratch by recruiting freshers and experienced, upskilling them as necessary, and delivering several successful assignments. I am inspired by the ideologies of Simon Sinek.

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
 - o https://www.rubiconred.com/blog/the-key-role-of-api-testing-explained
 - o https://soumyakbhattacharyya.github.io/

^{*} Apart from these documented projects, I have been involved in a consultative capacity with another 5 initiatives.