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|  | Soumyak Bhattacharyya Practice LeaderApplication & Conversational Platforms | Mobile: +91 9701816322  Email: [soumyak.bhattacharyya@rubiconred.com](mailto:soumyak.bhattacharyya@rubiconred.com) LinkedIn: [Soumyak Bhattacharyya](https://www.linkedin.com/in/soumyakbhattacharyya/)  Web: [www.rubiconred.com](https://www.rubiconred.com) |
| Soumyak is a talented IT professional with 17+ years of experience specialising in designing scalable, cloud - native, event based, distributed, data driven systems with expertise in Java/JEE, AWS, Chatbot platforms, Artificial Intelligence (AI), Machine Learning (ML), Data Architecture and Schema Design. Soumyak leads our ‘Application & Conversational Platforms’ Practice bringing his real-world expertise in modern data driven architecture, design and development to specific projects and his team at large. Soumyak is passionate about building efficient data models with a foundation in data science technology. Previously, as Engineering Manager, he delivered two products in the DevOps space and two large scale enterprise applications for the Government and the 2nd largest UK energy provider, respectively. Soumyak can fluently scale up, to work with senior leadership in an advisory capacity to help them strategise and scale down, to mentor and guide team members as a hands-on technical architect. | |

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|  | ACHIEVEMENTS |
| * Established the Application & Conversational Platform practice from scratch. * Delivered award winning chatbot solutions at both the [University of Adelaide](https://www.itnews.com.au/news/university-of-adelaide-claims-top-education-technology-project-538969) and the [Queensland University of Technology](https://www.crn.com.au/feature/crn-impact-awards-rubicon-red-creates-ai-chatbot-for-queensland-university-of-technology-569011). The chatbot solution implemented at the University of Adelaide has completely digitised 4 organisational functions to support all future student inquiries. Soumyak led the team responsible for migrating an Oracle based chatbot into an Amazon Lex-based solution for the Queensland University of Technology, which has resulted in a cost reduction of 80% and human effort by 50%. * Designed and delivered the Intelligent Document Management solution that stores, extracts and processes data from digital documents using AWS AI/ML services. Soumyak developed the core processing algorithm for data extraction. The solution is expected to reduce manual effort by 50%. * Designed/implemented and delivered 3 portals for the [Queensland Containers for Change (COEX)](https://www.containersforchange.com.au/qld/) project, which helped in recycling 4 billion recyclable containers; Soumyak wrote a highly efficient invoicing engine to process 50k payment requests per day; the team under his 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. * Designed/implemented award winning Application Release Management feature sets of MyST. Soumyak implemented the Release Pipeline framework. Soumyak guided the team to deliver 200+ features in 3 years for a customer base spanning financial services, manufacturing and public sector. During this period, the revenue earned by the product grew 2X times, the customer base grew by 40%, and defects reduced to 60%. * Receiving 3 awards as technical architect in Cognizant. | |
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|  | WORK EXPERIENCE |
| 06/2014 - PRESENT | Rubicon Red |
|  | Practice Manager |
|  | University of Adelaide (UoA) - Future Student Support Assistant (FSSA) |
|  | Soumyak led a team of 3 engineers to deliver an [Oracle Digital Assistant based chatbot solution](https://www.itnews.com.au/news/university-of-adelaide-claims-top-education-technology-project-538969) for the University of Adelaide, which has digitised 4 specific services to help future students get admission to UoA. Soumyak guided the development team and built the entire Oracle Cloud Infrastructure using Terraform. His specific contributions included:   * Developing the solution architecture * Defining the Data Architecture * Designing the data loading and unloading algorithm * Provisioning Infrastructure as Code * Delivering the overall engagement |
|  | Internal - Intelligent Document Processing |
|  | Soumyak led a team of 3 engineers and collaborated with Amazon senior consultants to deliver the Intelligent Document Management solution that used AWS Textract and AWS Comprehend to perform OCR of documents (PDF, images) in order to extract and process data from it. The solution can reduce 50% of the manual effort that the customer spends now. Soumyak’s contributions included:   * Developing solution architecture * Developing data extraction algorithm from PDF document * Developing cloud event model & data architecture for the solution * Delivering engagement |
|  | ServiceCo - Coex |
|  | Soumyak 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, in Queensland; wrote highly efficient invoicing engine to process 50k payment requests per day; the team under Soumyak’s 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. Soumyak’s contributions in particular were:   * Designing technical solution architecture, algorithm and data architecture specifically for ‘Payments Engine’ module * Designing authorization framework * Delivering engagement (phase#2) |
|  | Queensland University of Technology (QUT) - Q (Chatbot) |
|  | Soumyak led a team of 3 engineers to deliver an [Amazon Lex-based chatbot solution](https://www.crn.com.au/feature/crn-impact-awards-rubicon-red-creates-ai-chatbot-for-queensland-university-of-technology-569011) 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. Soumyak’s responsibilities included,   * Migrated old version of the bot into AWS Lex based solution architecture * Established the data architecture for the solution * Delivered engagement |
|  | Internal - MyST |
|  | As Engineering Leader, Soumyak led a team of 8 engineers and designed Application Release Management feature sets of MyST. He designed components and created data architecture for the Release Pipeline framework. Under his guidance the team delivered 200+ features in 3 years for a customer base consisting of banks, manufacturing companies, and government departments. During this period, the revenue earned by the product grew 2X times, the customer base grew by 40%, and defects reduced to 60%. |
| 2010 - 2014 | Cognizant Technology Solutions |
|  | Architect |
|  | Internal - Build as a Service |
|  | As Technology Architect for Global Technology Office of Cognizant Soumyak led a team of 5 developers to design and build a Release Management Platform that was offered as a SaaS product. Soumyak extended the open-source Jenkins CI server, modeled the data architecture to persist the configuration and runtime in a RDBMS. customized its plugin and altered core component’s behavior. The solution helped at least 5 BFS accounts to be able to embrace CD for their projects without any significant upfront cost. (Java, Jenkins) |
| 2004 - 2010 | Tata Consultancy Services |
|  | Information Technology Analyst |
|  | CTMIS |
|  | Soumyak 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 consisted 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%.ContributionsDesigned pay bill generation module’s component and data architecture from scratchDesigned REST APIDrove the team to deliver the solutionImplemented the solution at customer site |
|  | United Utilities, UK - Duos and Associated Distribution System |
|  | DUoS and Associated Distribution Systems (DADS) was a web-based solution for all Electricity and Power distribution functions. It helped United Utilities to meet the regulatory requirement to separate Distribution and Supply Businesses so that it can operate in the competitive UK electricity market as a discrete Business unit. Further, it reduced the number of systems across the Business resulting in the reduction in ongoing development and maintenance costs.Enhancements were being made in the following Modules of the DADS System:New ConnectionMetering Point Change by DistributorMetering Point Disconnection by DistributorMetering Point De-energisation /Re-energisation by DistributorEmergency Metering Point De-energisation/Re-energisation/Disconnection/Change of MeterMetering Point Change by SupplierChange of SupplierCreate and Maintain ContractReceive HH Meter AdvancesReceive NHH Meter ReadingsBillingManage DebtManage PaymentRevenue ProtectionOwner Credit CoverMaintain LLF DataMaintain MDD DataTrade Sales Soumyak contributed to the development of PL/SQL batches, tuned SQL queries, generated reports using the queries and exported/imported data from RDBMS. |

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|  | EDUCATION, QUALIFICATIONS |
| * Bachelor in Technology (Electronics & Telecommunication) *University of Kalyani, India* * Data Science certification   *Analytics Path, Hyderabad*   * AWS Certified Cloud Practitioner | |
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|  | SKILLS |
| Architecture and Design   * Establishing Data Architecture * Designing Fullstack applications * DesigningServerless applications * Designing Chatbot applications * Implementing Cloud - Native, Event - Driven, Distributed architecture * Designing products * Performing extensive data design and modeling   Cloud Competency   * Designing and implementing systems using AWS services   Data Science   * Exposure to foundational Data Science concepts   + Exploratory Data Analysis   + Data pre - processing   + Model selection and training   + Evaluating efficiency of the model   + Language - Python   + Libraries - Panda, Numpy, Matplotlib, Plotly   + Algorithms - Unsupervised and Supervised   Databases   * Oracle * MySQL * Redis * DynamoDB * ElasticSearch   Frameworks, Tools and Libraries   * Spring, Hibernate, JPA, QueryDSL * Git, Maven, Sonar, Jenkins, Docker, Terraform   Programming Languages   * Java, TypeScript, Python | |
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