

Anoop S Chatra

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Professional Summary

- **Principal Engineer/Software Architect** having **10 years of experience** in architecting and developing software solutions in Telecommunications, healthcare, and IoT industries.
- **7+ years** of experience with various Microsoft technologies like **c#, .Net core, .Net7, OData, Entity Framework, Action Filters, Middlewares, Kestrel, IoC containers**.
- **3+ years of experience in mobile application development** which includes Native **Android**, cross platform mobile application development using Xamarin.
- Expertise in handling **Azure cloud resources** which includes Event Hubs, Application Insights, Functions, Service bus, Blob storage, Postgress DB. SignalR and CI/CD.
- Expertise in conceptualizing, designing, and coding technical solutions in .Net and Microsoft technologies.
- Work experience using Web Services (REST), **Microservices**.
- Thorough understanding of software design patterns, SOLID principles and SDLC.
- Good knowledge of container-based cluster deployment strategy using **docker** and **Kubernetes**.
- Experienced with build, **Continuous Integration & Continuous Delivery**, and dependency tools like **Nuget**.
- Highly experienced with project management tools like JIRA, Rally etc.
- Experience in Java and J2EE.
- Experienced in **SAFe** and **Agile** Methodologies,
- Experienced in Unit tests, mocking frame works and **Test-Driven Development (TDD)** practices.
- Knowledge on automation framework like **Selenium** and Appium.

Education/ Certification

Bachelor of Engineering, Computer Science – JSSATE Bengaluru, 2013

Microsoft Certified: Azure Developer Associate (AZ-204)

Technical Summary

Web Technologies: Rest APIs, GraphQL, OData

Cloud Technologies: Azure Event hubs, Application insights, Functions, Push notifications, Blob storage, SignalR, CI/CD

Mobile Technologies : Native Android, Xamarin Android, Xamarin Forms

Framework/Libraries : .Net 6, Entity Framework, Nunit, Moq, Xamarin

Application Servers : IIS, Kestrel, Apache Tomcat

Programming Languages: C#, SQL, UML, Java, Xaml,

Database Technologies: Postgress SQL, Elastic, Sqlite

Tools: Visual Studio, Source tree, Postman, IntelliJ, Sonar etc

Operating Systems: Windows, Mac, Android

Methodology: Agile methodology, TDD, Pair Programming

Source Control: Git, TFS

Career highlights

- Designed and developed **robust connection resilient Bluetooth low energy (BLE) communication channel** between an Android application and smart hearing device.
- Developed an **event driven microservice backend system** which facilitates the real time data transfer between smart building IoT devices and web/mobile applications.

Work Experience

Harman Connected Services, Bengaluru

June 2021 – Till date

Projects Undertaken:

Remote building management

Role: Technical Lead

Technology Stack: .Net 6, C#, Azure Cloud Platform, REST, GraphQL, Nunit, Moq, Elastic, Git, ReactJS, Java 8

Role and Responsibilities:

- Architected and implemented various microservices using .Net 6.
- Designed and developed event driven applications to provide real time dashboard for smart building management.
- Served as a technical expert throughout the implementation and maintenance of RBM product.
- Involved in containerization of micro services and automating the deployment in OpenShift.
- Developed Web and API reference application to communicate with the IoT devices.
- Managed the scrum team of mobile and Backend engineers to develop the epics/features.
- Mentored and shared an in-depth understanding of industry methodologies, policies, standards, and controls leveraged in the product.
- Containerized micro services and automated the deployment in Kubernetes through Jenkins jobs.
- Designed and developed the application using Pair Programming with Agile Scrum methodology by breaking down the project to several sprints.
- Effectively used cloud technologies like Azure event hub and SignalR to achieve real time asynchronous communications.

Siemens Technology, Bengaluru

May 2016 – June 2021

Lead Software Engineer

Projects Undertaken:

Signia

Role: Sr cloud and mobile app developer

Technology Stack: Android, Xamarin Android, Xamarin Forms, .Net core 3.1, Azure web apps and Azure SignalR

Role and Responsibilities:

- Developed a scalable backend system which can handle windows desktop to mobile app video calls and webRTC.
- Developed various microservices using .Net core 3.1.
- Developed a pub-sub based real time communication layer using Azure signalR

- Designed and implemented BLE protocol-based communication layer between cross platform mobile app and IoT devices.
- Performed TDD using NUnit and Moq.
- Implemented postman test collections.
- Involved in UI/UX design of the mobile app and optimization of app size.
- Designed and developed the application using Pair Programming with Agile Scrum methodology by breaking down the project to several sprints.

Torry Harris Integration Solutions

Oct 2013 – May 2016

Technical Consultant

Projects Undertaken:

Evolve

Role: Android application developer

Technology Stack: Android, Java, REST, Sqlite

Role and Responsibilities:

- Developed Native android application which is used as a mobile version for HP quality center.
- Responsible for maintaining and expanding Hp quality center API integration in mobile app.
- Implemented mobile app test automation using Selenium and Appium.

Network Helper

Role: Java/J2EE and Android application developer

Technology Stack: Java, Apache tomcat, REST, Jax-RS, Junit, Android, AWS SNS

Role and Responsibilities:

- Developing an android mobile application contains google map view.
- Integrated AWS SNS in the mobile app
- Developed Web Services using Java Jersey – JAX RS framework.
- Developed the project in TDD using Junit as the unit test framework and JMockit to mock the endpoints.