



ANKIT MALHOTRA

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INDUSTRY EXPERIENCE

Infosys Limited (Technology Architect)

June 2014 - Current

Technology Architect Canada - Finacle Suite of Digital Banking Solutions

Tech Stack: Langchain, CrewAI, n8n, Java EE, Python, NodeJS, PolymerJS, OeCloud, Angular, AWS, Kubernetes, Kafka, DevOps

- Working as a **Technology Architect** for the Pre-sales team and have been part of **Finacle digital products** development and delivery for multiple clients.
- Led the integration and development of **Gen AI-based solutions** utilizing major industry APIs (e.g., Gemini, OpenAI) for accelerated application development. Mastered **prompt engineering** techniques to maximize model efficacy.
- Developed **advanced AI agents** using frameworks like **LangChain, LangGraph, LangFlow, CrewAI, and n8n**, specifically focusing on automating complex tasks.
- Designed and implemented **RAG systems** to enhance the accuracy and relevance of AI responses within banking applications, integrating proprietary knowledge bases with LLMs.
- Developed and implemented strategies for **fine-tuning LLMs and SLMs** such as Llama, OpenAI, and Gemini for specialized banking applications and use cases.
- Successfully built **AI agents for automatic API integration and UI creation**, resulting in significant acceleration of the development lifecycle and reduction of manual effort.
- Handled North American clients for Finacle Digital products. **Helped 15+ banks in designing their technical architecture** for on-premises and cloud deployments.
- Developed and implemented **DevOps** processes to streamline the development and deployment cycle of Finacle Solutions. Setup of GitLab **CICD pipelines** for the build, testing, and deployment of various products.
- **Worked on multiple POCs for the banks** where Finacle products need to be customized to work with their core banking systems. **Led the customizations** and developed a wrapper layer that converts the bank's XML-based APIs to support the REST interface.
- **Built automated tools**, including a service request development tool, **dynamic API creation tool**, and **automated lambda deployment tool**, resulting in a **70% reduction in the development effort**.

Finacle Innovation R&D Team

Finacle Mobile Teller (Mobile-based app for Bankers), Alexa Banking, Watch Banking

Tech Stack: Java EE, Angular, Cordova Framework, SQL, JAX-RS, OAuth, DevOps

Cordova and Angular-based Hybrid applications used by Bankers and Customers for Banking operations.

- **Led the development** of Finacle Mobile Teller, Alexa Banking, and Watch Banking.
- **Led onsite implementation for 5 clients** across different geographies, ensuring successful project delivery.
- **Transformed the traditional banking experience** through the development of a multi-platform user-friendly interface.
- **Developed a framework** that takes input and converts it to any Core Banking understandable format. The wrapper framework understood **REST** and **ISO 8583** messages and was able to handle a large number of secured banking data and requests, this reduced development effort by 80%.
- **Developed an Alexa skill integrated with AWS Lambda**, enabling customers to perform banking operations through voice commands.
- **Created Watch Banking for Android wearables**, allowing customers to conduct basic banking tasks on their devices.
- Created **CI/CD pipeline and SCM strategy** using **Gitlab** for the complete project. Enabled solution to be deployed using **Docker** and **Kubernetes**.

Recognition: Received the Top Employee Award for my work in the project.

More information on <https://www.edgeverve.com/finacle/mobile-teller/>

Finacle Branch Facilitator (Machine Learning based mobile application for bank customers)

Tech Stack: Java EE, Python, sci-kit for ML, Angular, Cordova Framework, SQL, JAX-RS, OAuth

Hybrid Application, using Machine Learning algorithms, to predict the available time slot of the teller and help the bank customers book an appointment

- Applied regression techniques to log the teller's routine as input and predict the transaction performance.
- Developed the algorithm that checks multiple factors like user location, bank location, and teller's performance to generate an appointment for the customer. If the appointment is getting changed due to unforeseen circumstances, the application sends an alert to the user with the updated time.
- Created a complete set of Chatbot operations using **DialogFlow**, integrated with the Finacle website and Facebook messenger.

CERTIFICATIONS

- **AWS Certified Solutions Architect - Associate**
- **AWS Certified Cloud Practitioner**
- **Infosys Certified Digital Banking Architect**

PERSONAL INITIATIVES

FM Radio India

2012 - 2023

Tech Stack: ASP.NET, Android, iOS, Python Rest APIs, AWS, DynamoDB

Website, Android, and iOS application that enables you to listen to more than 50,000 radio stations from all over the world.

- Deployed Python Rest APIs on AWS Lambda to return radio URLs to the application. Used DynamoDB to store the URLs for the stations
- Developed FM Radio India Admin portal in ASP.NET with web crawlers to get the radio URLs automatically from multiple sources.
- Created Admin portal to automatically check the performance of Radio Stations and generate alerts for issues using AWS SNS.
- Deployed code in AWS Lambda using Gitlab for SCM and CICD pipelines.

Recognition: More than 2 million downloads and currently the #1 radio iOS application in India. Also received appreciation from multiple MNCs and placed in the Independent Software Vendors list of an MNC.

More information on www.fmradioidia.in

TECHNICAL SKILLS

Languages & Scripts:

- Python, JAVA, Android, NodeJS, ASP.NET, C#
- MySQL, Oracle, MongoDB, DynamoDB

Frameworks & Tools:

- Dockers, Kubernetes, OAuth, OpenCV, DevOps, GitLab, Amazon Web Services
- LangChain, CrewAI, n8n, LangFlow, LangGraph, Gen AI APIs (Gemini, OpenAI, etc.)

EDUCATION

Maharishi Markandeshwar University (Master of Computer Application) GPA: 8.79

2011-2014

Kurukshetra University (Bachelor of Computer Application) Percentage: 66.4%

2008-2011