

## Sanjay K Dubey

Atlanta GA | 770-687-1204 | [sanjaydubey31@yahoo.com](mailto:sanjaydubey31@yahoo.com)

[Portfolio Page](#) | [GitHub Link](#) | [LinkedIn Page](#)

### Dev Lead/Senior Developer

Results-driven Dev Lead/Senior Developer with extensive experience designing/developing scalable, secure, and efficient architectures for cloud-native and enterprise applications. Proven track record of leading complex migrations, streamlining systems, and driving innovation in telecommunications and enterprise solutions. Skilled in integrating modern technologies to align with business goals and ensuring cost-effective, high-performance systems.

### Key Skills

Solution Architecture | Microservices Design | Cloud-Native Applications | Technical Roadmaps | Stakeholder Collaboration | Team Mentorship | Project Leadership | Performance Optimization | Integration Optimization | Fault Tolerance | Gen AI | Agentic AI

### Technical Skills

- **Full Stack Development:** React | ExtJs | Angular | Java | Spring Boot | Microservices | REST APIs | SOAP Webservices | OAuth2 | Apigee | Git | GitHub | GitLab | ANT | Gradle | Maven | Docker | Kubernetes | OpenShift | Kibana/ElasticSearch | New Relic | Jenkins | Ansible | CI/CD pipelines.
- **Cloud & DevOps:** AWS and DevOps using IAM | Security Groups | EC2 | S3 | VPC | Lambda RDS | Postgres DB | ELB | Auto Scaling | CI/CD pipelines | ansible | cloud formation | Jenkins | GitLab | Python | Shell scripting.
- **Gen AI/Agentic AI:** Python, LLMs, GPT Models, NLP, Prompt Engineering, RAG, LangChain, LangSmith, LangGraph, GROQ API, OpenAI API, Ollama, Hugging Face, AGNO, CrewAI
- **Data Processing:** Apache Kafka | JMS Queue | IBM MQ.
- **Search Technologies:** Apache Solr search engine
- **Salesforce CRM:** Lightning Apps | SOQL | Apex | Visualforce Pages | Workflow | Salesforce Admin Salesforce Sales Cloud.
- **Database:** Oracle | Postgres | SQL Server.
- **Web Development:** React | Angular | ExtJs | PHP | Servlet | JSP | JSF | Java Beans | REST APIs | Microservices | Apigee | Kibana | Postgres | Apache | SOLR.
- **Enterprise Solutions:** enterprise application development | integration optimization | J2EE | Oracle DB JBOSS | WebLogic.
- **Legacy Tech:** J2EE | Servlets | Applets | JSP | SWING | Java Multithreading | JSF | Hibernate | Apache | Tomcat | PHP | Perl Struts | Shell Scripting.

### Professional Experience

FedTec, Atlanta, GA  
Sr Developer

Feb 18, 2025 - Current

Currently working as a Senior Developer on ACA Verification Services (AVS) and Premium Tax Credit (PTC) projects, utilizing enterprise technologies such as IBM MQ, JMS queues, SOAP-based web services, and the JBOSS application server for message-driven and integration-based solutions.

Designed and developed a Proof of Concept (PoC) to modernize legacy systems by building cloud-native microservices using Spring Boot 3.4.3, Java 17, Gradle 8.7, Spring Kafka, and Confluent Kafka. This modernization effort involved containerizing microservices using Docker and deploying them on Red Hat OpenShift, leveraging the OpenShift Developer Sandbox and Confluent Kafka Cloud for scalable and resilient architecture.

Additionally, developed multiple AI-powered Chatbots and Intelligent Agents using advanced AI frameworks and tools such as LangChain, LangGraph, AGNO, CrewAI, GROQ API, OpenAI, and Ollama. These AI solutions were designed to enable conversational interfaces and intelligent task automation.

All code assets have been maintained in my GitHub repository: <https://github.com/sanjaydubey31/>  
The deployed AI projects are publicly available on my Hugging Face Space(sanjaydubey733):  
<https://huggingface.co/spaces/>

**Verizon Wireless, Alpharetta, GA**

**September 2018 – October 2024**

#### **Princ Engr-Software Devt**

Designed and developed the **Single Pane of Glass (SPOG)** interface, an application designed for Verizon B2B and R2B outside sales representatives. This unified platform provided a comprehensive view for assessing base health, tracking key metrics, performing essential activities, and determining next best actions. Also developed chatbot and integrated with SPOG UI and Verizon InfoManager for sales reps. The project leveraged AWS, React, microservices and chatbot to deliver a robust, scalable solution.

#### **Frontend Architecture (React on AWS)**

- Built the SPOG UI focusing on creating reusable components and maintaining efficient state management through hooks, Redux, and Flux.
- Integrated REST APIs for seamless data retrieval and processed complex forms with custom validation libraries to enhance user experience.
- Employed a component-based architecture and careful props management to ensure the frontend remained scalable and maintainable.
- Designed for responsive UI with CSS-in-JS solutions, while React Router handled routing and navigation.
- Optimized application performance through lazy loading, memorization, and debugging with React DevTools.
- Designed and leveraged CSS-in-JS solutions and tools such as React Router for navigation. Worked on optimizing performance using lazy loading, memorization, and React DevTools for debugging.

#### **Backend Architecture (Microservices on AWS)**

- Designed and developed the backend using Spring Boot microservices, configured with Gradle for a scalable and modular design.
- Built RESTful APIs with efficient CRUD operations and used Spring Data JPA for seamless data persistence.
- Implemented inter-service communication through Feign clients and an API Gateway to streamline integration and routing.
- Set up distributed logging and managed microservices with Spring Cloud components, such as Eureka, Config Server, and Circuit Breaker, to enhance system resilience.
- Secured the application with JWT and OAuth2 for role-based access control and integrated SSO with React and microservices.
- Incorporated Apigee to manage standalone microservices and enable streamlined API management.

#### **Cloud & DevOps**

- Containerized microservices using Docker and Kubernetes, allowing for consistent deployment across environments.
- Implemented automated deployment pipelines using CI/CD, streamlining the build, test, and deployment process and reducing deployment time.

#### **Chatbot**

- Created chatbot using Ollama framework to manage/install LLM (Llama 3.1), then used LangChain framework and FastAPI with Uvicorn as middleware to send prompts from Python code to the LLM, integrated this middleware to a React component.
- Developed conversational search agent using Jina Vector model for Embeddings, chromaDB Vector DB for storing and retrieving vector embeddings, also used aiohttp/asyncio module to integrate with Verizon Infomanager url. That way agent can leverage the tool to retrieve information from the Infomanager url also based on prompt since that data not available in LLM.

Worked for the BCS organization. I migrated multiple legacy applications into AWS. I have extensive experience migrating on-premise applications to AWS Cloud. This includes designing and implementing infrastructure using CloudFormation templates for automated provisioning and configuration. I have utilized services such as EC2, VPC, ELB, and Auto Scaling to ensure high availability and scalability. My expertise covers setting up security groups, IAM roles, and policies to ensure secure access to cloud resources. I've automated deployments using Ansible and built CI/CD pipelines with Jenkins for seamless code integration and delivery. Additionally, I have experience troubleshooting issues post-migration and optimizing cloud resources to ensure cost efficiency and compliance with AWS best practices. The solution was fully automated E2E with minimal intervention needed. It also adhered to all applicable Verizon IT/Data security standards. It also provided a fully fault tolerant.

I designed and developed a marketing tool that provides visibility to special offers at all levels of the sales and marketing hierarchy. It tracks available offers and spend down to the sales rep level. It streamlines offer process across multiple systems. The tool allows market teams to allocate offers when needed and Empowers sales teams to use offers as closing tools using AWS, Angular, Microservices, OAUTH, Zuul, Eureka, Oracle database

**Verizon Wireless, Alpharetta, GA**

**March 2015 - August 2018**

#### **MTS IV Cslt-Sys Engrg**

Managed and developed Customer escalation and reporting system (CERS) system. This application is a tool used by reps to respond to customer escalations for various Verizon units like VZW, CMB, former MCI and VES using ExtJS and Spring framework.

Managed and developed TCMS, a tax exemption system for billing, using AWS, Angular, Microservices, and OAUTH.

Developed quoting tool application which provides an online application for creating maintaining and viewing Quote information. This application provides a unified data set for all channels of business operations from sales and marketing to care. Customer can view, accept the quote online. This application can also generate contracts and profile for standard quote. Technology used: REACT, Microservices, Apigee and Oracle database.

Led development of quoting and profile tools for unified customer profiles using React, Apigee, and Oracle.

**Verizon Enterprise Solutions, Alpharetta, GA**

**January 2006 - March 2015**

#### **MTS IV Cslt-Sys Engrg**

After Verizon and MCI merger, I worked and led to implement customer, product MDM solutions for Sales, Commissions, Finance resulting in elimination of 8 legacy systems and over multi million dollars annual cost savings. I also worked auditable revenue reporting / financial close system that accelerated the monthly close

process by 5 days, decommissioning legacy revenue reporting systems resulting in multi million dollars annual cost savings.

I worked and led the architecture and design, development and optimization of this new application GCH (Global Customer Hierarchy), which is a single repository of all Verizon customer data on a common platform that supports a unified hierarchy model and the multiple views required by stakeholder. It also provides various customer focused information serving functions such as customer inventory, account inquiry, customer listings, account teams.

Designed a java based multithreaded testing tool by implementing the Runnable interface to simulate concurrent API requests for load testing. Used the Thread class to create and manage multiple threads, assigning unique names for better logging and debugging. Implemented thread join logic to ensure all simulated requests completed before generating performance metrics like latency and throughput. Tested the tool against Web Services and Web APIs, ensuring it could handle edge cases such as timeouts, throttling, and heavy data payloads.

**Used these skill sets** - J2EE | EJB | JDBC | JSF | Ice Faces | Oracle DB | Hibernate | Ant | Maven | CVS | UNIX | Eclipse | JBOSS | JMS | Java Webservices.

**MCI Inc, Clinton, MS**

**March 2004 - Jan 2006**

**Sr Application Developer**

Developed Web-based Desktop Client & Data Transformation Engine in J2EE framework using Java SWING, EJB, XML & SQL

Designed, developed applications using JSF, JSP, JavaScript, EJB, and Oracle application server for Master Data Management Project.

**TEKsystems, Clinton, MS**

**Nov 2003 - March 2004**

**Sr Application Developer**

Designed, developed applications using Apache, PHP and SQL Server on Internal Account Repository project for MCI. This project was related to address the issue for the lack of centralized location for housing and monitoring of non-billable and internal account data for MCI Inc.

**SkyTel Communication Inc. Jackson MS**

**Software Engineer**

**Feb 2000 - Nov 2003**

Designed, developed and tested applications using JSP, Java Beans, Java Servlets, XML, SQL, HTML and java script allowing SkyTel subscribers to create address book on their wireless device. This interface also allowed addition of group-wise in which multiple addresses could be added. The application provided exporting and importing of messaging wirelessly from PC to Pager as well as from Pager to PC.

Designed and developed E-commerce applications using JSP, Java Beans, Java Servlets, XML, HTML and java script through which the customers can place an order for buying different type of devices.

Designed and developed an application that benefited SkyTel in offering web-based multi featured send message application using WCTP protocol. The application permitted configuration changes to the extent that it will not require extensive programming to adapt it for different customer types.

Designed and developed Customer Service Interface though which users can customize all the features of their mobile devices, using JSP, Java Beans, Java Servlets, XML, HTML, java script and SQL. Informix database was used for storing data.

## Education

- **Master of Science**, University of Allahabad (1994)
- **Bachelor of Science**, University of Allahabad (1990)

## Certifications

- **Model Context Protocol (MCP): Hands-On with Agentic AI**— LinkedIn Learning  
Certificate ID: 2f88438df81b5de2046046354b357da66b3e9f31b7716213056efc2f11b6de32  
Certificate URL: [View Certificate](#)
- **Building Applications Using Amazon Bedrock**— LinkedIn Learning  
Certificate ID: caa29213329db475f2e814da63ddebbd136f03e599e73a44e82a0e9e28f470fc  
Certificate URL: [View Certificate](#)
- **Deep Learning with Python: Hands-On Introduction to Deep Learning Models** — LinkedIn Learning  
Certificate ID: 1f93f6237ed5ecec490cd37cf742defebba0a1ed141b05952dbffcc0c075d66d  
Certificate URL: [View Certificate](#)
- **Machine Learning with Python** — LinkedIn Learning  
Certificate ID: 7820c7ce92c376450d77b78c9129d434b6b0391419dc0fc3eaad8ba7d40cd3fa  
Certificate URL: [View Certificate](#)
- **Continuous Integration/Continuous Delivery (CI/CD) with Jenkins** — LinkedIn Learning  
Certificate ID: 68741e704967263de4d1b2ffd01e9bc1f648c61fe82572cc2bd589c845ab2379  
Certificate URL: [View Certificate](#)
- **Learning OpenShift** — LinkedIn Learning  
Certificate ID: b09a54259c5ede09d749c80ff71fa6e5fdaf2f2cca9e66d9729cb82d7856c1d8  
Certificate URL: [View Certificate](#)
- **Learning Kubernetes** — LinkedIn Learning  
Certificate ID: 416f76241189d1277f3f0c065a88eecbd2e9a0834f1bddcb31839055f83ad3bc  
Certificate URL: [View Certificate](#)
- **Learning Splunk** — LinkedIn Learning  
Certificate ID: 48433048315e5550778e51d5584dcd302f6e9b07fbfe2fd80ac90c6d2461f735  
Certificate URL: [View Certificate](#)