Rajkishor Maharana  
Front-End Developer (React)

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# Professional Summary

Full Stack Developer with 7 years of experience building scalable web applications using React, Spring Boot/Express.js, REST APIs, and both SQL and NoSQL databases. Familiar with SDLC, system design principles, and have applied DDD and TDD in real-world projects. Experienced in CI/CD pipelines, Docker, Kubernetes, and have worked with cloud platforms like AWS, with exposure to Azure and GCP. Comfortable in Agile/Scrum teams, focused on writing clean code and delivering reliable software.

**Technical Skills and Expertise**

Front-end : React.js, Next.js, React Native, Redux, JavaScript (ES6+), TypeScript, HTML5, CSS3, Micro Frontends, NPM/Yarn

Back-end : Java (Spring Boot), Node.js, Express.js, RESTful APIs, Microservices Architecture, GraphQL, WebSockets, JWT/OAuth-based Authentication, API Security (CORS, Rate Limiting, Input Validation), Serverless Framework

Testing : Jest, Enzyme, RTL, React test utils, React test renderer, Mocha, Supertest, Cypress

Database   
Management : PostgreSQL, MongoDB, Redis, Cassandra

DevOps &   
Cloud Technologies : AWS, Azure, Docker, Jenkins, Kubernetes, Vercel

Programming   
& Design : Data Structures & Algorithms (DSA), System Design (HLD & LLD),   
 GoF Design Patterns, UML

Tools : VS Code, Jira, Git, Postman

SDLC : Agile (SCRUM), TDD, BDD, SRS, BRD, Jira, Confluence

**Organizational Experience**

**Current Employment : Cognizant Technology and Solution India Pvt Ltd**

**Designation : Associate-Projects**

**Joining date : 11th July 2022 to Present**

**Profile : Software Engineer**

**Project 8**

Project name : Assisted Sales – Retail CRM

Client : Verizon

Duration : 6 Jan 2025 to present

Description : This project modernized a retail enterprise system by integrating peripheral devices (barcode scanners, lockers, vending machines) and enabling scalable UI development using Micro Frontends (MFE). It focused on improving developer productivity, enforcing code standards, and optimizing performance across a suite of retail tools.

Role : Full stack developer

Team size : 7

Technology : Micro Frontends, Nx, Webpack, Babel (AST Parsers), Polyfills, Shell scripting, React Js, Node.Js

Tools : VSCode, IntelliJ

Responsibility

* Integrated peripheral hardware devices (barcode scanners, lockers, vending machines) by developing robust communication and control features, enabling seamless interaction within the retail software ecosystem.
* Delivered full-stack features for a modular Retail CRM system using React and Node.js within a Micro Frontend (MFE) architecture, improving user experience and maintainability.
* Led the development of a scalable Micro Frontend (MFE) framework, enabling independent deployment of UI modules and accelerating cross-team productivity.
* Built governance-aligned pre-commit hooks (null checks, API hook enforcement, commented code blockers) to enforce code quality across all MFEs, reducing bugs and aligning with enterprise standards.
* Created the MFE microsite for a high-stakes product launch, ensuring modular scalability, marketing readiness, and seamless user experience.
* Collaborated with the Technical Governance team to implement MR-level code compliance automation, fix platform-specific security issues (Fortify on Mac), and deliver PoCs for AST-based tagging (jsshift) and module federation optimization (modfed2).
* Developed a legacy dependency pre-commit hook, proactively detecting insecure or outdated packages, reducing JS bundle sizes and improving security posture.
* Migrated codebase from CommonJS (CJS) to ECMAScript Modules (MJS), enabling tree shaking and reducing bundle size from ~1MB to ~20KB — significantly improving load time and performance.
* Enforced standardized API patterns by injecting and validating RTK Query endpoints and ensuring consistent use across MFEs for cleaner and more scalable API integrations.
* Resolved high-priority UI blanking issues by implementing AST-based (Babel AST parser) null safety checks, ensuring fail-safe rendering and preventing production regressions.
* Implemented Adobe Analytics tagging automation using jscodeshift and Babel AST, injecting s.tl() and related tracking calls into event handlers to ensure consistent analytics coverage across MFE components.

**Project 7:**

Project name : Automated Customer Support System (ACSS)

Client : Verizon

Duration : 21 Dec 2023 to 26 Dec 2024

Description : ACSS is the Automated Customer Support System, where it involves in solving the many problems for representatives (Tele caller customer care representatives) starts from receiving customer’s call till his issue/query addressed like changing plan, technical issues, mobile monthly bill related information etc. ACSS is a representation layer of all the systems of VDSI (Verizon Data Services India Pvt. Ltd) where it communicates with so many external systems of Verizon to fetch the user data. It also incorporates with the CTI (Computer Telephone Interface) for the customer call handling where customer’s call is directly mapped to a representative to solve his/her issues. With ACSS, Representative can solve almost any problem which doesn’t require any of his/her supervisor approval or permission. If he/she need so there is an option to communicate directly with his supervisor also for the immediate approval.   
 ACSS is a mission-critical platform for Verizon’s customer care representatives, providing unified access to diverse backend systems to handle customer queries (billing, plans, tech issues etc.). Originally built as a tightly-coupled monolith with BAU (Business As Usual) components communicating via Enterprise Service Bus (ESB), the platform underwent a large scale modernization.

Role : Full stack developer

Team size : 27

Technology : React, Redux Toolkit, Redux Saga, Java, NestJS, ExpressJs, Spring Web Flux, Enterprise Service Bus, Oracle DB, Cassandra, ELK, Kafka, Domain Driven Design(DDD), Microservices, Micro Frontends (MFE), Nx, Webpack Module Federation, Docker, Kubernetes

Tools : VSCode, Intellij, Gitlab

Responsibility

* Modernized Legacy Architecture: Migrated the monolith BAU structure to a microservices-based DDD architecture, replacing the ESB with a decentralized, event driven model using Kafka and services contracts.
* Domain-Driven Microservices (CXP Domains/Aggregates): Contributed to development of CXP Domain and Aggregate microservices, aligning with the DDD principles. Ensured services handled bounded context like Customer Profile, Billing and Plan Management. Wrote service interfaces adhering to domain boundaries and separation of concerns.
* SOE/API Gateway Development: Implemented SOE layer (System of Engagement) acting as the API gateway, exposing business capabilities to frontends and orchestrating interactions with Domain/Aggregate services.
* Micro Frontends (MFE) Migration: Replaced legacy iframe-based UIs with scalable MFEs using Nx + Webpack Module Federation. Each MFE aligned to a domain service and deployed independently.
* Full Stack Feature Delivery: Delivered frontend features using React, Redux Toolkit, and Redux-Saga, tightly integrated with SOE APIs and backend microservices built on Spring WebFlux and NestJS.
* Containerization & Orchestration (DevOps): Worked with Docker to containerize Domain/Aggregate microservices.  
  Deployed and scaled services in Kubernetes clusters, optimizing pod configurations and readiness probes across environments.
* Code Quality & Governance: Contributed to test coverage KPIs by writing robust unit tests (Jest, RTL).  
  Participated in API contract enforcement and aligned with enterprise governance standards.
* Agile & Cross-Functional Collaboration: Participated in daily standups, sprint planning, SME reviews, and retrospectives, working closely with product owners, architects, QA, and DevOps teams.

**Project 6:**

Project name : Teach Cambridge – My Cambridge SSO Integration

Client : Cambridge Identity (Cambridge University Press & Assessment)

Duration : 16th Jun 2023 to 15th Dec 2023

Description : My Cambridge is a 'single sign-on' service, which allows you to access services provided by Cambridge International and Cambridge University Press and Assessment using one set of login details. In this project the Teach Cambridge centre data is integrated into the My Cambridge SSO organisation page to allow admins of centres to create users and provide roles for associated schools/centres.   
 Teach Cambridge integrates Cambridge school/centre data into the My Cambridge SSO system, enabling centralized authentication and streamlined user-role management for partner institutions.

Role : Full stack developer

Team size : 13

Technology : React, TypeScript, Axios, Serverless Framework (Node JS), AWS (Lambda, S3, API gateway, CloudWatch, Amplify, AppSync), SAP CDC, Azure DevOps, Terraform

Tools : VS Code, Bitbucket, Git, Browser Dev tools

Responsibility

* Frontend Engineering: Developed React components, reusable hooks, and RESTful integrations using Axios, following TDD/BDD practises with > 90% unit test coverage.
* Performance Optimization: Leveraged Lighthouse audits, React profiler, and code-splitting to reduce load time and improve runtime performance. Techniques included function memoization, lazy loading, and static asset minimization.
* AWS Backend Development: Built and tested Lambda functions behind API Gateway to support user role management workflows; followed Serverless Framework for structured deployment.
* Infrastructure & DevOps: Deployed and monitored apps via Azure DevOps pipelines; fixed runtime issues using logs from AWS CloudWatch.
* Agile Collaboration: Participated in sprint planning, estimation, backlog grooming, and feature reviews. Actively collaborated with QA, designers, and product owners for timely deliverables.
* Production Readiness: Implemented logging and error handling for critical workflows; helped reduce CloudWatch-reported issues by identifying and fixing edge-case bugs in API interaction flows.

**Project 5:**

Project name : Complaints Self Servicing Portal (S3P)

Client : American Express

Duration :  Aug 2022 to Apr 2023 (9 months)

Description : The S3P portal tool allows users to conduct searches of ICARE complaints data using specific query words of topics over a large datasets. The tool allows users to search all complaints for a given time period. The portal is comprised of 4 key sections i.e., Mandatory search parameters, query search box, filters and attributes.Built using microfrontend and microservice architecture, it provides scalable, performant interfaces for customer insights and reporting.

Role : Full stack developer

Team size : 11

Technology : React JS, Jest, Enzyme, RTL, Redux, Elasticsearch, Express.Js, Node Js, HiveQL, PostgreSQL, MongoDB

Tools : VS Code, Git, Jenkins, Docker, Chrome Dev tools, Maven, Eclipse

Responsibility

* Microfrontend Ownership: Contributed to OneApp MFE framework, building modular React components with Redux state management and data fetching via Iguazu RPC and REST.
* Backend Development: Created and maintained Node.Js and Express.Js microservices backed by MongoDB, PostgreSQL, and Elasticsearch for querying structured and unstructured data.
* Data Visualization: Integrated Highcharts.js and internal design system components (oneDLS) to build dynamic and interactive complaint analytics dashboards.
* TDD & Test Coverage: Achieved 100% test coverage across modules using Jest, Enzyme, and React Testing Library, following strict TDD principles in a CI/CD pipeline.
* DevOps & Performance: Worked with Jenkins for CI/CD and Docker for containerization, improving deployment consistency and local dev parity.
* Agile Collaboration: Participated in sprint planning, retrospectives, backlog grooming, and worked cross-functionally with product owners, QA, and other developers.

**Past Employment : Capgemini India Pvt Ltd, India**

**Designation : Associate Consultant**

**Joining date : 15th June 2018 to 11th July 2022**

**Profile : Full stack developer**

**Project 4:**

Product name : Solution Finder

Clients : Michelin Group, Edwards Life sciences, John Lewis & Partner, RMG, CCEP

Duration :  May 2021 to Jun 2022 (1 year 1 month)

Description : Solution Finder is a web-based application assisting the resolver groups to quickly find solutions for the problem in hand .Users submit a query which is analyzed against the current repository for matching solutions. The repository is scanned for Incident, Problem management tickets and Knowledge objects for providing the optimal solution. The tool generates a ranked output which helps the user to apply the correct solution to the problem​. Solution Finder can also be accessed through a chrome plugin which enables the user to directly search from within the ticketing tools.

Role : Full stack developer

Team size : 11

Technology : Node JS, Express.JS , React JS, HTML, CSS, ITSM Tool/Share point, Apache Solr, Chrome extension API

Tools : VS Code, Git, Browser Dev tools, Maven

Responsibility

* Backend API Development (Node Js):Developed and maintained RESTful services in Node.js/Express.
* Data Adapters and Batch Jobs: Built batch-processing adapters using cron jobs to periodically pull data from ServiceNow, SharePoint, and knowledge bases, transforming and indexing it into Apache Solr for optimized search performance.
* Chrome Extension for Diagnostics: Created a custom Chrome Extension that captured console logs, HAR logs, and screenshots, auto-exported incidents as PDF/DOCX, and integrated with ticketing tools—streamlining triage workflows for support engineers and managers.
* UI Development: Developed responsive UI using React.js, Material UI, and Bootstrap. Built a PWA landing page with SSO authentication and role-based plug-in management to unify multiple SPAs.
* TDD & Agile Delivery: Followed Test-Driven Development (TDD) with unit/integration tests. Participated in daily stand-ups, sprint reviews, and backlog grooming with product owners across client engagements.
* Performance & Maintenance: Identified and resolved on-premise performance bottlenecks, patched security vulnerabilities, and shipped custom add-ons tailored to individual enterprise clients.

**Project 3:**

Product name : App Analytics

Duration : Feb 2020 to Apr 2021 (1 year 2 months)

Description : App Analytics is an internal analytics dashboard that allows Airbus to monitor and visualize development progress, complaint patterns, and performance trends across various business units and geographic locations. It helps stakeholders identify bottlenecks and track delivery metrics for in-development applications.

Role : Full stack developer

Customer name : Airbus

Team size : 6

Technology : React.js, Redux, SCSS, Node.js, Express.js, PostgreSQL, Kafka, React Native

Tools : VS Code, Git, Azure DevOps, Azure VM

Responsibility

* Secure Authentication System: Integrated Single Sign-On (SSO) using JWT and OAuth2 in Node.js + Express, securing enterprise access to the application.
* Full Stack Feature Delivery: Developed RESTful APIs using Express.js and handled business logic for complaint tracking and analytics workflows. Built responsive UI using React, Redux, and SCSS.
* Real-Time Event Streaming: Integrated Kafka in both frontend and backend to stream user events for behavioral analysis, enabling near real-time insights and proactive diagnostics.
* Mobile Companion App: Created a React Native mobile version of the web portal, offering stakeholders mobile access to analytics reports and tracking metrics.
* Database Management: Used PostgreSQL and Knex.js (or Sequelize) to build and manage relational schemas and query optimizations.
* Testing & Code Quality: Applied unit tests and integration tests using Jest and Supertest, ensuring backend reliability and frontend behavior correctness.
* CI/CD & Deployment: Deployed Node.js microservices on Azure VM, configured pipelines using Azure DevOps, and performed monitoring/logging via Azure Logs.

**Project 2:**

Product name : Maturity Assessment Portal

Client : Heathrow Airport

Duration : Apr 2019 to Jan 2020 (10 months)

Description : Maturity Assessment Portal (MAP) is a web-based platform designed to assess the automation maturity of business units and identify opportunities for process improvement. It provides dynamic dashboards, scoring models, and downloadable reports to support digital transformation efforts.

Role : Full stack developer

Team size : 13

Technology : Node.js, Express.js, PostgreSQL, Angular 2+, Redux, Jest, Highcharts.js, jsPDF, Bootstrap, TypeScript

Tools : VS Code, Git (Tortoise), Azure DevOps

Responsibility

* Backend Migration to Node.js: Replaced legacy Spring Boot APIs with scalable Express.js services to handle assessment data, score calculations, and role-based access control using JWT
* Dashboard Development: Built interactive, real-time dashboards with Highcharts.js and React, providing visual insights into maturity scores across departments and timelines..
* PDF Report Generation: Implemented dynamic PDF export functionality using jsPDF, enabling stakeholders to download customized analytics reports.
* Unit Testing & QA: Wrote robust test coverage using Jest and Supertest (backend) and Enzyme + Jest (frontend), improving confidence in releases and reducing regression bugs.
* State Management & Optimization: Integrated Redux with immutable.js to manage large form states and complex assessment flows efficiently.
* CI/CD Pipeline: Managed code commits, environment deployments, and release pipelines using Azure DevOps, ensuring stable releases and rollback capabilities.
* Agile Collaboration:Participated in agile ceremonies including daily standups, sprint planning, retrospectives, and code reviews, contributing to collaborative delivery.

**Project 1:**

Project name : My AI Advisor (MAIA) Virtual Assistant

Client : Group Industrialization & Automation

Duration :  June 2018 to Mar 2019 (10 months)

Description : MAIA is an NLP-driven Conversational Virtual Assistant designed to answer enterprise-level FAQs by combining intent recognition, search index querying, and visual analytics. It integrates structured and unstructured content via a robust Node.js backend and leverages Elasticsearch and Python ML/NLP for QnA accuracy.

Role : Backend Developer & Data analyst

Team size : 8

Technology : Node Js, Elasticsearch, Kibana, Python

Tools : VS Code, PyCharm, Azure DevOps

Responsibility

* Backend API Development (Node.js): Built RESTful services to support real-time conversational flows and search queries over Elasticsearch indexes.
* Search Engine Integration: Designed and configured Elasticsearch indices to store FAQs, documents, and contextual metadata. Used Kibana to visualize NLP model performance and search analytics.
* Python-based NLP Pipelines: Developed pipelines for intent detection and named entity recognition (NER) using spaCy, NLTK, and scikit-learn.
* Automated Data Ingestion: Used Python scripting to scrape content from SharePoint, internal portals, and websites. Parsed and indexed this data into Elasticsearch for query resolution.
* AI/ML Research POCs:
  + Trained models using BERT (SQuAD 2.0) to explore comprehension-based QnA.
  + Evaluated Amazon Comprehend and BRAT for semi-supervised data labeling and chatbot training use cases.
* npm Utility Module: Created an internal npm package to bootstrap Microsoft Bot Framework integrations with map services like Bing Maps, Google Maps, OpenStreetMap, and Mapbox.

**Internship/Training**  
JSPIDERS, Murugesh Pallya, BANGLORE   
Jul 2017 - May 2018

* Trained in Java, J2EE (Servlets, JSP, JDBC), Spring, Hibernate, SQL (Oracle 11g), HTML, CSS, and AngularJS.
* Built a billing system web application using AngularJS for the frontend, J2EE (Servlets & JSP) for backend, and Oracle 11g as the database.
* Gained hands-on experience with MVC architecture, database operations, and full-stack application development.
* Participated in debugging, deployment, and basic project version control practices.

**Academic profile**  
Government College of Engineering, Kalahandi, Odisha  
Bachelor of Technology (B.Tech) – 2012–2016