

Ravi Kishore Thella

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Profile:

- Software Development Lead with 9+ years of experience in designing and development of web applications.
- Proficiency in developing Enterprise applications using Spring Boot, Hibernate, REST API.
- Proficiency in code reviews, testing, support, and maintenance of applications.
- Hands-on experience in Python, Kafka, Splunk, Airflow.
- Strong communication and interpersonal skills backed by sound analytical, technical and leadership skills.

Professional Highlights:

- Spearheaded the large-scale migration of 352+ tables from SQL Server to PostgreSQL, automating the process with custom Python scripts and significantly optimizing database performance.
- Implemented GeoServer integration within the Network Planning Platform, enabling high-speed visualization of complex geospatial data, sites, and layers.
- Integrated Clickstream analytics across 37 applications (React/Angular), providing deep insights into user behavior and enabling real-time navigation tracking.
- Deployed Real User Monitoring (RUM) and custom dashboards, drastically reducing issue identification time and enhancing overall user experience.
- Boosted Site Reliability Engineering (SRE) scores for the Network Planning Platform from ~50% to over 65% through dedicated workflow enhancements.
- Served as a Subject Matter Expert (SME) for SAFe teams, delivering critical guidance on architecture, coding standards, and high-priority production incident resolution.

Education:

- Master of Science (Indiana University), Indianapolis, USA – 2018
- Bachelor of Technology, (Guru Ghasidas Vishwavidyalaya) Bilaspur, India – 2016

Technical or Key Skills:

Frontend	HTML5, CSS3, JavaScript, jQuery, React.js, Redux.js, Leaflet.js, Ajax, Kendo UI, Bootstrap
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Backend	Java, Spring Framework, Spring Boot, Python, Node.js, REST API, JSON, XML
Databases	MySQL, Oracle, SQL Server, PostgreSQL, MongoDB, Vector DB
AI & Cloud	LangChain.js, LangGraph, RAG, Azure, Google Cloud, Spring AI
Tools & Middleware	GeoServer, Jenkins, Git, Bitbucket, Maven, Eclipse, IntelliJ, Visual Studio Code, STS, NetBeans, MATLAB
Operating Systems	Windows, macOS

Domain Skills:

- Telecommunications
- Enterprise Order Management (BOM, Purchase Orders)
- Software Development Lifecycle (SDLC)
- Agile/Scrum Methodologies
- Site Reliability Engineering (SRE)
- Geospatial Data Analysis (GeoServer, GIS)
- Online Obituary Services

Certifications:

- Google Cloud Certified – [Associate Cloud Engineer](#)
- Microsoft Certified – Azure AI Fundamentals
- Microsoft Certified – Azure Data Fundamentals
- FreeCodeCamp – Front End Development Program

Experience:

Current/Latest Project:

Project Name	BOM (Bill of Materials) Admin Tool
Client Name	Verizon
Duration	April 2026 - Current
Role	Software Development Lead
Environment	Java, Spring Boot, PostgreSQL, React, JSON, REST API
Description	The Bill of Materials (BOM) Admin Tool is a mission-critical Verizon enterprise platform designed to automate the end-to-end bill of materials generation for site construction. The system utilizes a metadata-driven architecture to

	define project taxonomy, site types, and construction pods, serving as a standardized engine for equipment configuration. By integrating with Fuse APIs, the tool replaces manual workflows with an automated rule-based system, facilitating precise hardware association, validation, and calculation for network infrastructure planning. Key initiatives include the implementation of an advanced audit mechanism to track configuration changes, ensuring data integrity, version history, and streamlined restoration capabilities for complex taxonomy data.
Responsibilities	● Architected and developed a robust, generic audit mechanism for taxonomy and pod management to track configuration changes, enabling version history, data comparison, and efficient restoration capabilities. ● Designed and implemented a responsive React-based History UI to display taxonomy audit logs, facilitating intuitive version selection and rollback features for operational stakeholders. ● Optimized system performance and data integrity by implementing backend audit triggers using Spring Boot services and PostgreSQL, ensuring scalability for high-frequency configuration updates. ● Collaborated with architects to refine rule configuration logic (hardware, calculation, validation, and workflow), enhancing the automation engine's precision in component selection and bill of materials generation. ● Evaluated complex implementation trade-offs between database-level versus service-level triggers to ensure optimal system throughput and maintainability for enterprise-scale deployment.

Project Name #2:

Project Name	NPP Database Migration
Client Name	Verizon
Duration	December 2024 - April 2026
Role	Software Development Lead
Environment	PostgreSQL, MySQL, Java, Spring Boot, Shell Scripts, AWS, REST API

Description	Led the large-scale modernization and migration of the Network Planning Platform (NPP) from MySQL to PostgreSQL, transforming 61 enterprise applications (29 frontend, 32 backend), 76 shell scripts, and 156 database procedures to a scalable, high-performance architecture. This mission-critical initiative established a robust foundation for enterprise-grade scalability, enabling advanced analytical query optimization, stricter data integrity, and compliance standards. The migration unlocked next-generation capabilities, including native geospatial querying via PostGIS for network planning and AI-readiness through pgvector for vector-based search, positioning the platform to support future AI features without infrastructure overhead.
Responsibilities	• Provided strategic technical leadership and management for a 30+ member cross-functional team (onshore/offshore), driving the end-to-end migration lifecycle from requirement gathering and benchmarking to production deployment and hypercare. • Architected and executed the complex data schema and application connection migration, successfully rolling out 61+ applications to Production with seamless cutover and stakeholder sign-off. • Achieved significant performance improvements by optimizing complex joins, window functions, and CTEs in PostgreSQL, ensuring critical APIs returned responses faster than the legacy MySQL environment under high-concurrency workloads. • Integrated pgvector into the database layer to enable Approximate Nearest Neighbor (ANN) search capabilities, facilitating the platform's transition to an AI-ready data architecture. • Implemented PostGIS to handle complex geographic and spatial geometries (polygons/line strings), directly enhancing the application's network coverage planning and mapping accuracy. • Established a rigorous post-migration monitoring framework, managing daily user calls and slack-based support channels to ensure operational stability and rapid resolution of obstacles during the stabilization phase. • Managed release planning, environment cutover, and deployment documentation, ensuring high availability and alignment with business operational goals.

Project Name #3:

Project Name	5G Home Ready
Client Name	Verizon

Duration	February 2024 - December 2024
Role	Senior Software Engineer
Environment	Java, Spring Boot, React, HTML5, CSS3, JavaScript, PostgreSQL, MySQL, GeoServer, REST APIs, Git, Jenkins
Description	5G Home Ready, formerly known as Verizon Select Internet (VSI) / All Access Home, is a complex geospatial planning and orchestration platform designed to streamline the lifecycle of fixed wireless access deployments. The application bridges the gap between Donor infrastructure (macro sites) and Multi-Dwelling Units (MDUs/MTUs) by automating complex RF planning, geospatial analysis, and project generation. The system integrates advanced spatial visualization using GeoServer with a robust enterprise backend to orchestrate data across Verizon's ecosystem (SPM, BAERS, VMP, FUZE), enabling high-volume site planning, automated workflow triggers, and real-time coverage mapping.
Responsibilities	• Spearheaded the end-to-end development of the VSI/All Access Home platform, leading the architecture and integration efforts across front-end UI and back-end orchestration services. • Designed and developed interactive geospatial dashboards using React, HTML5, and CSS3, integrating GeoServer to visualize complex Donor-to-MDU coverage, sector mapping, and real-time project status. • Architected scalable RESTful microservices in Java/Spring Boot to handle complex business rules, including automated block-break logic, spectrum overrides, and solution generation. • Led the seamless integration with enterprise systems (SPM, VMP, BAERS) to automate the site creation and deployment lifecycle, reducing manual data entry and increasing pipeline accuracy. • Optimized database performance in PostgreSQL and MySQL by implementing complex indexing, efficient query structuring, and schema design to support large-scale geospatial queries and high-concurrency user traffic. • Championed front-end standardization by modernizing legacy interfaces into high-performance React grids and map views, improving usability for regional planning teams and field engineers. • Collaborated with product owners and stakeholders to translate business requirements into technical features, including complex filter logic, bulk project automation, and audit-compliant reporting. • Managed defect triage, root cause analysis, and production incident resolution, ensuring stable system performance and 99.9% availability for critical network deployment workflows.

Project Name #4:

Project Name	Network Planning Platform
Client Name	Verizon
Duration	December 2018 – February 2024
Role	Software Engineer
Environment	HTML5, CSS, jQuery, JavaScript, leaflet.js, Geoserver, React.js, Java 1.8, Spring Framework 3.0, Spring Boot, JPA, Hibernate 3.0, Spring DAO, JSON, MySQL, PostgreSQL, Oracle, GeoServer, Airflow
Description	Verizon wireless is a telecommunication company which offers wireless products and services. The objective with 5G Network Planning Platform is to create solutions first, then create projects to maintain links between the different platforms used throughout the project lifecycle. This web application tool helps the users to track and maintain the utilization of the network frequencies and predicting the cell tower usage and increasing the capacity of the tower with Solution Initiatives.

Responsibilities	● Coordinate and facilitate all project Agile/Scrum activities such as release planning, iteration planning, task breakdown, development of user stories, maintenance of the product backlog reviews of stories, daily stand ups, iteration review and retrospective to mention a few. ● Designed and developed the GUI (graphical user interfaces) for all pages in the web application using HTML5, CSS3, JavaScript, JQuery and React.js ● Using AJAX for asynchronous request handling, partial refreshing by the user and implementing the jQuery library module within the project. ● Implementation of advanced functionalities on google maps using Leaflet.js. ● Architected and developed scalable, cloud-ready microservices and RESTful APIs using Java, Spring Boot, and enterprise design patterns, enabling efficient processing of high-volume purchase-order transactions and complex business workflows. Use Postman and Swagger for testing the web services.. ● Developed server-side validations using regex and client-side validation using JavaScript, jQuery. ● Developed database connections using Spring JDBC, JPA, and Spring DAO. Experience in writing the SQL, PL/SQL Stored Procedures, Functions, and Views. ● Worked in Agile Environment Development with a 2 weeks sprint and Co-ordinating with users on user testing and providing quick turnaround for reported issues and also, supporting the production release by identifying the cause of defects and fixing the defects in a timely manner.
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Project Name #5:

Client Name	Legacy.com
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Duration	July 2018 - November 2018
Role	React Developer
Environment	HTML5, CSS3, JavaScript, React JS, Node.js, MongoDB, Express, WebPack, Redux, Axios, GraphQL, React StoryBook, Ant, React-Router, Bootstrap, SAAS, Bit bucket, Jenkins.
Description	Legacy.com is the global leader in online obituaries which provides support and obituary-related services to more than 1,500 newspapers and 4,000 funeral homes in the United States, Canada, Australia, New Zealand, U.K., and Europe to help people express condolences and share remembrances of loved ones
Responsibilities	• Designed dynamic, multi-browser compatible pages using HTML5, SAAS, JavaScript, and React.js. • Utilized React Router 4 to develop a Single Page Application (SPA) and React.js for faster compilation and reusable components. • Created an organizational component library using React Storybook with Lerna for package versioning. • Integrated Storybook addons (Knobs, Viewport, Storyshots, Accessibility) and implemented Visual Regression testing. • Optimized application performance by reducing page size and load times using sprites. • Pair-Programmed with fellow Developers, gave a live demo of the component library to all the developers in the organization.