

Krishna Ganta

ganta.dnvk@gmail || +1(408)6146348 || [linkedin.com/in/dnvk-g26](https://www.linkedin.com/in/dnvk-g26)

SUMMARY:

Full Stack Engineer with 4+ years focused primarily on front-end development, building customer-facing web applications using React, Angular, JavaScript, and TypeScript. Strong expertise in modern UI frameworks, responsive design, component architecture, state management (Redux), and performance optimization. Complementary full-stack capabilities include backend API development with Java Spring Boot and Node.js, cloud-native applications on AWS, and database design using PostgreSQL and MongoDB. Solid computer science fundamentals in object-oriented design, data structures, and algorithms. Delivered measurable impact including 20% increase in user engagement through UI redesigns, 30% reduction in regression defects via automated testing (Jest, Selenium), and 95% improvement in workflow automation. Experienced in Agile development, CI/CD pipelines, code reviews, and taking ownership of features from design to production. Passionate about solving complex customer problems through intuitive, scalable front-end solutions.

TECHNICAL SKILLS:

- **Web Development:** HTML5, CSS3, JavaScript/TypeScript, React, Angular, Redux, Node.js (Express), Spring Boot, AJAX, Webpack.
- **Programming Languages:** Java, Python, SQL.
- **Database :** SQL (PostgreSQL) and NoSQL databases (MongoDB, Elasticsearch).
- **Cloud Technologies:** AWS (Lambda, EC2, RDS, S3), Azure.
- **UI/UX Design:** Figma, Adobe XD, Sketch and Axure.
- **Testing & Tools:** JUnit, Mockito, Selenium, Jest, Jasmine, Postman, Kafka, RabbitMQ.
- **DevOps:** Git, Maven, Jenkins, Docker, Kubernetes, CI/CD pipelines, Jira, Terraform,.
- **Communication:** Effective communicator, capable of explaining complex technical concepts to non-technical stakeholders and collaborating across teams.
- **Concepts :**Microservices Architecture, Distributed Systems, REST APIs, Data Structures & Algorithms, OAuth2.0, LLMs, Prompt Engineering, Generative AI
- **Methodologies:** Agile, ITSM.

PROFESSIONAL EXPERIENCE:

Indus River Technologies, Texas

Front End Engineer / Full – Stack Engineer

Feb 2024 – Present

- Developed and maintained full stack web features using Java Spring Boot and Angular/React, delivering end-to-end functionality across multiple product modules.
- Built real-time monitoring dashboards using React and Node.js to visualize data pipeline health metrics, enabling operations team to identify and resolve issues 50% faster.
- Redesigned user interfaces using React and AJAX frameworks for 50,000+ daily users, resulting in a 20% boost in user engagement and 15% reduction in bounce rate.
- Developed modular and reusable UI components using TypeScript, Webpack, and modern CSS frameworks leveraging GitHub Copilot to accelerate component development and reduce manual effort across cross-device applications.

- Integrated frontend components with JSON REST APIs, implementing automated UI testing using Jest and Selenium that reduced regression defects by 30% across 5 production releases.
- Wrote optimized SQL queries and database operations to retrieve and process application data, improving backend data access efficiency for frontend services.
- Monitored application health using Dynatrace and ELK telemetry dashboards, and utilized ChatGPT and AI-assisted debugging tools to accelerate root cause analysis and resolve production issues faster.
- Worked closely with product managers and backend engineers to translate business requirements into scalable software features.
- Participated in Agile development cycles contributing to feature implementation, code reviews, and CI/CD deployment workflows.

Tata Consultancy Services, Hyderabad

Software Engineer

May 2021 – Dec 2022

- Designed and developed scalable data engineering pipelines using Apache Spark, Kafka and Python to process and analyze large volumes of structured and unstructured data in realtime.
- Developed loosely coupled REST APIs and serverless Functions using Node.js, Express, and MongoDB to orchestrate subscription processes, leveraging AWS Lambda and API Gateway.
- Built automated subscription orchestration system reducing manual onboarding time from 30 minutes to under 2 minutes.
- Implemented event-driven messaging architecture using Kafka and RabbitMQ, enabling reliable communication between distributed microservices.
- Conducted unit testing and integration testing using JUnit and Postman to ensure service reliability and maintainability.
- Designed data schemas for storing No-SQL subscription process data in MongoDB.
- Developed Python scripts for data processing and automation tasks, improving operational efficiency for large-scale data workflows
- Automated Infrastructure as Code (IaC) across multiple environments (Dev, Test, UAT, Prod) using Terraform, reducing environment setup time from a day to less than 5 minutes.

PROJECTS:

E-commerce Platform Redesign

- Redesigned and optimized platform UI using React and TypeScript, implementing lazy loading, code splitting, and responsive CSS to achieve a 20% improvement in load times and user engagement.
- Built and integrated RESTful APIs for dynamic content delivery with MongoDB backend, implementing server-side caching and query optimization to support scalable product catalog management.

AI-Powered Customer Support Chatbot

- Developed a serverless AI-powered chatbot using Python and Flask-RESTPlus, deployed on AWS Lambda, applying NLP techniques including intent recognition and keyword clustering to automate student query resolution.
- Built a scalable, data-driven response pipeline using classification and frequency-based pattern recognition, reducing student support wait times by 40% and handling 500+ queries daily and laying groundwork for LLM-based response generation.
- Integrated OpenAI API to enhance chatbot responses with generative AI capabilities, experimenting with prompt engineering techniques to improve intent accuracy and response relevance.

EDUCATION:

- Master of Science in Computer Science from Governors State University, Illinois. **Aug 2022 – Dec 2023**
- Bachelor's in Electrical & Electronics Engineering from Vasavi College, India. **Jun 2017 – Apr 2021**

