

# Sri Nandini Kanduri

Software Developer

[nandini@workwebmail.com](mailto:nandini@workwebmail.com) | (908) 560-2216 | USA | [LinkedIn](#)

## Summary

Experienced Software Developer with 2+ years of strong background in full-stack development, backend services, and cloud-based applications. Proficient in JavaScript (Node.js, React), Java (Spring Boot), and Python, with expertise in building scalable, secure, and high-performance systems. Skilled in database management, API security, DevOps practices, and CI/CD automation. Adept at working in Agile environments, optimizing system performance, and ensuring seamless user experiences. Passionate about designing efficient, reliable, and innovative software solutions to drive business growth and operational efficiency.

## Technical Skills

- Programming Languages:** JavaScript, Java, Python
- Frontend Development:** React, Redux, JavaFX, Tailwind CSS
- Backend Development:** Node.js, Express, Spring Boot, RESTful APIs, Microservices
- Database Management:** PostgreSQL (indexing, partitioning, sharding), AWS RDS
- Security & Authentication:** JWT, OAuth 2.0, SSO, HTTPS, API Security Best Practices
- Cloud Platforms:** AWS (Elastic Beanstalk, RDS, Lambda), Azure (Kubernetes, Azure DevOps)
- DevOps & CI/CD:** Jenkins, Docker, Kubernetes, Azure DevOps, GitHub Actions
- Testing & Automation:** JUnit, Mockito, TestNG, Automated Performance & Load Testing
- Other Tools & Technologies:** Stripe API, Axios, Recharts, A/B Testing, Agile Methodologies

## Work Experience

### Software Developer, *Truist Financial*

10/2024 – Present | Remote, USA

- Architected and developed the Smart Expense Tracking and Budgeting Platform using Node.js and React to deliver real-time financial insights, dynamic budgeting tools, and transaction tracking, providing users with a data-driven, personalized financial experience.
- Engineered the backend with Node.js and Express to build highly scalable, RESTful APIs for managing user data, expense categorization, and budgeting logic. Integrated Stripe API for secure payment processing and applied JWT token-based user authentication.
- Designed and implemented the frontend with React, using Redux for efficient global state management, Axios for API interaction, and Recharts for interactive, real-time data visualization for mobile-first, responsive UI using Tailwind CSS and custom component design.
- Integrated advanced security measures including JWT for secure, token-based authentication and OAuth2 for third-party authentication. Ensured platform security by using HTTPS, data encryption, and regular security audits on API endpoints and user data.
- Optimized PostgreSQL database schema with advanced indexing, partitioning, and sharding strategies to boost query performance by over 40%. Utilized AWS RDS for highly available and fault-tolerant database solutions, with automated backup, multi-region replication, and performance monitoring.
- Employed CI/CD pipelines using Jenkins and Docker, automating testing, build, and deployment processes. Deployed the platform to AWS Elastic Beanstalk for managed container orchestration and auto-scaling for seamless scalability and fault tolerance.

### Associate Software Developer, *Tata Consultancy Services*

01/2020 – 12/2022 | Hyderabad, India

- Cooperated closely with cross-functional teams to gather requirements and architect a scalable multi-tenant SaaS solution. Used Agile practices to drive iterative development and performed A/B testing for feature validation and constant user experience optimization.
- Developed robust backend microservices using Spring Boot with a multi-tenant architecture, implementing tenant isolation at the data and application levels. Integrated JWT authentication, RBAC, and secure API endpoints for seamless multi-tenancy management.
- Engineered the frontend using JavaFX, leveraging modular UI components to support dynamic tenant-specific customizations. Implemented responsive dashboards, real-time data visualization, and interactive features like user-role management and analytics views tailored to each tenant's needs.
- Applied advanced security measures including OAuth 2.0 for secure authentication and SSO (Single Sign-On). Ensured data protection with end-to-end encryption, API security best practices, and automated vulnerability scanning to secure multi-tenant environments.
- Designed a scalable database schema on PostgreSQL, using both schema-based and database-per-tenant approaches for optimal performance. Executed efficient data partitioning, query optimization, and high-availability tactics to support the growing data needs of multiple tenants.
- Led the quality assurance process with comprehensive testing strategies, using JUnit, Mockito, and TestNG for unit and integration testing. Automated performance and load testing to validate multi-tenant isolation and ensure application reliability at scale.
- Orchestrated the deployment of the multi-tenant application on Azure using Kubernetes for containerization and Azure DevOps for CI/CD pipelines. Implemented auto-scaling, load balancing, and managed service integrations to ensure the application scaled dynamically based on demand.

## Education

### Master of Science in Information Technology

Gannon University

01/2023 – 12/2024 | Erie, Pennsylvania

### Bachelor of Technology, Computer Science

Aurora Degree and PG College

06/2018 - 06/2021 | Hyderabad, India