

# SANDHYA GANESH

Dearborn, MI

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## PROFESSIONAL SUMMARY

Results-driven Software Engineer with 4+ years of experience building and scaling backend systems, integrating high-traffic APIs, and optimizing large-scale data pipelines for retail, e-commerce, and IoT platforms. Skilled in AWS cloud services, Node.js, MongoDB, serverless architecture, and microservices, with a strong track record of problem resolution, delivering business impact, and ensuring production stability.

## CORE SKILLS

**Programming & Frameworks:** Node.js, Java, Python, Spring Boot, Angular

**Cloud & Infrastructure:** AWS (Lambda, ECS, SQS, Kinesis, EventBridge, Batch, EC2, S3, Transfer Family, CloudWatch), GCP, Azure IoT

**Databases:** MongoDB, PostgreSQL, MS SQL

**Data & Analytics:** Tableau, NRQL (NewRelic), Spark Java, Cloudera

**Tools:** GitLab CI/CD, Postman, Zephyr Scale

**Other:** Agile/Scrum, API Development, RESTful Microservices, Streaming Data Pipelines

## EDUCATION

**MS, Business Analytics**

**The University of Texas at Dallas**

Dallas, TX | August 2021 - May 2023

- Graduate Certificate in Applied Machine Learning
- Scholar with Recognition

**B.Tech, Computer Science Engineering**

**SASTRA Deemed to be University**

Thanjavur, India | July 2016 - April 2020

## CERTIFICATIONS

- Machine Learning A-Z™ (Udemy)
- Neural Networks & Deep Learning (Coursera)
- MongoDB Data Modeling (M320)
- MongoDB Node.js Developer Path

## PROFESSIONAL EXPERIENCE

**7-Eleven, Inc. (Contract) | Software Engineer**

Remote | May 2023 – Present

- Delivered multiple high-impact projects, including a third-party marketplace integration generating \$1M+ in sales within 6 months.
- Developed RESTful microservices integrating 3rd Party Delivery Platform APIs and Stripe Payment Processor APIs, implementing OAuth 2.0 authentication, data transformation, error handling, and automating payment reconciliation.
- Architected AWS infrastructure with Lambda and ECS for scalable services, SQS for order data flow, Kinesis for high-volume inventory processing, AWS Batch/EC2 for scheduled jobs, EventBridge & Transfer Family for automated file exchanges
- Developed and maintained automation scripts in Node.js to extract, process, and analyze data from multiple sources, enabling actionable insights for feature enhancements and informed business decision-making, improving data collection by 50%.
- Engineered NewRelic NRQL dashboards with real-time monitoring and analytics, accelerating incident detection and cutting resolution time by 25%, improving service uptime.
- Resolved an average of 5+ high-priority production incidents per week via coordinated issue resolution bridges and triages, significantly strengthening platform reliability and user trust.
- Collaborated cross-functionally with engineering, operations, and finance teams to eliminate sales reconciliation discrepancies, achieving nearly 100% data accuracy and streamlining financial reporting.
- Led GitLab code reviews and performed QA with Zephyr Scale, elevating code quality standards and driving a 30% drop in production defects.

**7-Eleven, Inc. (Contract) | Software Engineer Intern**

Dallas, TX | September 2022 – May 2023

- Built backend services and batch jobs with Node.js under serverless architecture, deployed via GitLab CI/CD pipelines.
- Automated recurring backend tasks on AWS EC2, reducing manual maintenance effort.

**Walmart, Inc. | Data Science Intern**

Bentonville, AR | May 2022 – August 2022

- Improved ML model accuracy by 17% by implementing automated feature selection using Recursive Feature Elimination (SVR – Linear Kernel).
- Developed interactive Tableau dashboards to translate model outputs into actionable supply chain improvements to support analytics and operations teams.
- Leveraged Google Cloud Platform (GCP) for model deployment and SQL for manipulating large datasets to support analytics.

**TCS Ltd. | Systems Engineer**

Chennai, India | August 2020 – August 2021

- Developed an IoT web application POC using Angular (frontend), Spring Boot (backend), and Azure IoT Cloud (deployment).
- Configured and deployed Linux-based IoT gateways (Ubuntu, Debian) with custom modules for data transmission via MQTT and Apache Kafka.
- Built Spark Java modules for real-time data processing and used Cloudera to manage distributed big data services.