

JAGADEESWAR JONNADULA

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WORK EXPERIENCE

Realityrift Innovations ↗

June 2025 – February 2026

SDE Intern — *TypeScript, AWS (Lambda, DynamoDB, SES, S3), GCP (Vertex AI, Firebase), Next.js*

- Built a multimodal Vertex AI pipeline (image, audio, document) — a multi-turn conversation summarizer with context-aware memory handling and a meeting-minutes generator that produces structured Google Docs from recordings.
- Integrated Razorpay (UPI and non-UPI flows, plan upgrades, cancellations, mandate handling), PayPal, and Apple Pay for end-to-end subscription billing, with webhook verification and retry logic for reliable subscription lifecycle management.
- Built an automated invoice generation system with dynamic PDF streaming, S3-based storage, and branded logo integration for subscription billing records.
- Built an internal admin dashboard to track customer interaction insights, revenue metrics, and usage metrics via CloudWatch, Express, and REST APIs.
- Built a native Android app in Kotlin, rebuilding the primary website as a mobile-first experience and using Kotlin Coroutines for asynchronous network and UI workflows.
- Sustained production reliability over 8 months, resolving recurring issues in timezone handling, schema validation, rate limiting, permission handling, and security issues, and driving performance optimizations to keep the product stable for end users.

Absolute Laddoos ↗

May 2025 – June 2025

Software Development Engineer (Contract) — *Next.js, Razorpay, Firebase, GCS, TypeScript*

- Designed and shipped a production e-commerce platform on Next.js 15 and Firebase; built a fault-tolerant Razorpay payment flow using idempotent Firebase transactions and hashing to prevent duplicate orders.
- Built a coupon system, distance-based delivery pricing via Google Maps, GCS-hosted home page images, and order-confirmation emails sent in the background.

Trovo ↗

April 2025 – May 2025

Backend Engineer — *TypeScript, Supabase, React, TanStack Query*

- Built the backend for **Trovo**, an **early-stage fintech startup**, powering authentication, card management, transactions, and reward redemptions.
- Designed a modular TypeScript backend using **Supabase as the primary database**, implementing secure authentication, real-time analytics, and production deployment on Vercel.

PROJECTS

Agentic Evaluator Engine ↗ — *Vertex AI, Firestore, GCS, TypeScript*

- Built a pipeline of specialized agents (descriptor, evaluator, MCQ generator) that scores system design diagrams out of 80 and generates scenario-based MCQs; processed 70+ submissions during a live workshop at ~70s per evaluation.
- Replaced manual grading for the workshop by distributing jobs across stateless workers using Firestore atomic transactions for lease-based concurrency; handled peak load with zero dropped evaluations during live processing.
- Routed binary uploads directly to GCS via pre-signed URLs, taking the evaluator out of the data path so workers stayed stateless and scaled freely.

Emergency Vehicle Detection System ↗ — *YOLOv8, OpenCV, Streamlit*

- Built a real-time computer vision pipeline using YOLOv8n (Nano) to detect emergency vehicles, achieving an mAP@0.5 of 0.780 for ambulances—a 105% improvement over baseline models.
- Built a Streamlit dashboard running at 30–50+ FPS using a frame-skipping algorithm.

VNR Reports — *PostgreSQL, GCS, Firebase, TypeScript*

- Built a reporting platform used by 25+ departments at VNRVJIET, featuring dynamic JSONB-based forms and role-based access control.
- Implemented GCS-based file upload pipeline for faculty document submissions with secure signed URL handling.
- Built a server-side DOCX generator that compiles faculty submissions into 50+ page monthly institutional reports, with real-time SSE progress tracking.

VNR Sportfest ↗ — *Firebase, Razorpay, Nodemailer, Full Stack*

- Developed a full-stack app with support for authentication and real-time dynamic event registration for over 200 students with Firebase.
- Introduced webhooks with Razorpay to validate over 3.8L in revenue along with email notifications through Nodemailer.

TECHNICAL SKILLS

Languages:	C++, Java, TypeScript, Python, SQL
Cloud:	AWS (Lambda, DynamoDB, S3, SES), GCP (Vertex AI, Firebase, Cloud Storage)
Frameworks:	Spring Boot, Angular, Next.js, Node.js
Tools & Databases:	PostgreSQL, CI/CD, Git, Postman

LEADERSHIP

- Won **1st place at Webathon** out of 50+ teams — built **Univo**, an event organizing app, in 16 hours.
- Won the **SIH Internal Hackathon**, leading a team of 6 to build the winning solution.
- Built and managed a **technical fest website** and admin portal for a 3-day event, processing 600+ registrations while **leading a team**, reviewing work, and ensuring smooth UI/UX delivery.

CERTIFICATIONS

AWS Cloud Practitioner Essentials (Certificate)	March 2025
SQL (Intermediate) (HackerRank Certification)	May 2024
Tableau Certification (Internshala)	May 2023

EDUCATION

VNR Vignana Jyothi Institute of Engineering and Technology	2023 – 2027
B.Tech - Computer Science and Engineering (Data Science), CGPA: 9.03	Hyderabad, India