

TARUN L. SANKAR

Dallas, TX | tarunsankar@gmail.com | [linkedin.com/in/tarunls](https://www.linkedin.com/in/tarunls) | tarunls.com | github.com/Tarunls

EDUCATION

The University of Texas at Dallas — Dallas, TX

Expected May 2027

B.S. in Computer Engineering | GPA: 3.7/4.0 | Collegium V Honors | Dean's List | National Merit Scholar

EXPERIENCE

Northmark Cloud & Compute (NMC²) — Dallas, TX

Jun 2026 – Present

Software Engineering Intern, Network Automation

- Built a Slack-integrated network automation bot that monitors Zero-Touch Provisioning (ZTP) and Infracore events across GPU infrastructure spanning several thousand GPUs and hundreds of thousands of configuration records.
- Developed a one-command snapshot test harness to baseline Infracore configuration, diff subsequent changes, and surface unintended infrastructure drift in Slack before deployment.
- Implemented a tool-calling assistant integrating Jira, Slack, Infracore, and ZTP to diagnose infrastructure issues across systems and surface likely root causes.

The University of Texas at Dallas — Dallas, TX

Aug 2024 – Present

Undergraduate Researcher

- Built an IoT and TensorFlow pipeline using satellite-receiver data to classify ionospheric scintillation events versus radio-frequency interference and multipath artifacts.
- Built a one-command Bash deployment pipeline that provisions Azure storage and web apps, configures Raspberry Pi collectors, and launches real-time Plotly Dash dashboards ingesting hundreds of thousands of data points daily.
- Open-sourced ScintKit, a Python library that scans legacy and current ScintPi station formats, visualizes data-availability gaps, and emails automated monitoring reports.

Enky — Remote

Dec 2024 – May 2025

Builder (Full-Stack Developer)

- Built and launched full-stack features for a two-sided music-promotion marketplace using React and Next.js, connecting 20+ emerging artists with influencers for paid song placements.
- Implemented user authentication and Stripe payment workflows that enabled influencers to set placement rates and artists to purchase promotions through the platform.

MyIntent.io — Remote

Aug 2024 – Nov 2024

Software Engineering Intern, Frontend Development

- Owned frontend integration for services that ingested RFPs, parsed supporting documentation, and generated AI-assisted business responses, building the associated workflows in Next.js.
- Integrated React components with NestJS APIs and Gemini/OpenAI models to transform structured customer inputs into generated business documents.

PROJECTS

Cinder Control — TAMUHack 2026 | 2nd Place & Best Solo Project

Jan 2026

- Built a full-stack wildfire decision-support platform solo in 36 hours with Next.js and FastAPI, enabling incident commanders to query fire behavior by voice or text.
- Implemented a parallel cellular-automata simulation forecasting wildfire spread up to 96 hours and cross-referenced infrastructure and geospatial data to flag at-risk assets and generate evacuation routes.
- Integrated OpenAI, ElevenLabs, Mapbox, OpenStreetMap, and NOAA weather APIs for natural-language control, voice narration, mapping, and live environmental data.

COMMERCE — Live Social-Engagement Forecasting Platform

Jul 2026

- Built a live-data forecasting platform that turns fresh YouTube and Reddit comments into 1–3 hour prediction contracts, giving users a risk-free way to evaluate engagement momentum, probability, and time decay.
- Designed a server-authoritative Node.js pricing and settlement engine that computes probability, live mark value, implied volatility, and theta from engagement velocity, reach, freshness, text signals, and historical acceleration.
- Integrated Google OAuth, Redis-backed balances and leaderboards, quota-aware shared comment pools, early cash-outs, and automated tests covering pricing, settlement, discovery, and storage invariants.

TECHNICAL SKILLS

Languages: Python, Java, C++, TypeScript, SQL, Bash

Frameworks: React, Next.js, Node.js, NestJS, FastAPI, Flask

ML & Data: PyTorch, TensorFlow, Hugging Face Transformers, PostgreSQL, Supabase

Cloud & Infrastructure: Azure, GCP, Docker, Kubernetes

Certifications: Microsoft Certified: Azure Administrator Associate