

Tanveer Singh

Software Engineer | Backend & Full-Stack | Go, TypeScript, Node.js

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Summary

Software Engineer with 10 months of internship experience building backend, full-stack, and real-time systems using Go, TypeScript, Node.js, PostgreSQL, and Redis. Worked on production legal technology used by **1,000+ professionals** and built developer tooling, real-time collaboration software, and browser-based 3D systems.

Technical Skills

Languages: Go, TypeScript, JavaScript, Python, SQL

Backend & Realtime: Node.js, Express, FastAPI, REST APIs, gRPC, WebSockets, Server-Sent Events

AI & Agents: PydanticAI, RAG, LLM Tool Calling, pgvector, AWS Bedrock, AWS Textract

Frontend: React, Next.js, Three.js

Data: PostgreSQL, Redis, MongoDB, Kafka

Cloud & Tools: AWS (EC2, S3), Docker, Kubernetes, GitHub Actions, Jenkins, Linux

Core CS & Design: System Design, Data Structures & Algorithms, Database Design, Computer Networks, Operating Systems

Work Experience

LawVriksh

Dec 2025 – Jul 2026

Software Engineer Intern · Remote

Next.js, Node.js, Python, PostgreSQL, Redis, AWS

- Built Node.js APIs, PostgreSQL models, and Redis workflows for an AI legal-document editor used by **1,000+ legal professionals**.
- Built streaming retrieval-augmented generation (RAG) workflows that read scanned documents (OCR), verify facts, and check legal reasoning; cut AI response latency by **65%**.
- Automated releases with GitHub Actions, Jenkins, Docker, and AWS, with safe rollback, cutting deployment cycles by **80%**; earned a **2-month extension**.

Lupira

Aug 2025 – Sep 2025

Full Stack Developer Intern · Remote

React, Next.js, Go, Firebase, Three.js

- Made client screens update in real time by replacing REST polling with Firebase listeners; shipped React, Next.js, and Go features across **3+ client projects**.
- Optimized Three.js 3D rendering to hold **60 FPS** on desktop and mid-range mobile devices.

Projects

MerchantAgent | [GitHub](#) | [Demo](#)

Aug 2026 – Sep 2026

Python, FastAPI, PydanticAI, Sarvam AI, Next.js, PostgreSQL, pgvector, Redis, Razorpay API

- Built for the **Razorpay Buildathon**: a shopkeeper types “Rajesh ke liye 500 ka link bhej do” (send Rajesh a Rs. 500 link) and the AI agent creates the Razorpay payment link. It also handles orders, expenses, stock, and revenue reports in Hindi, English, or Hinglish, by text or voice, and a second agent lets customers browse and check out.
- Made the agent safe with money: it can draft a campaign but only the merchant can approve it, and payment, order, and message actions run once per request with duplicate detection. Every action is saved in an append-only audit log.
- Kept prices, stock, and payments on exact SQL queries and used pgvector search only for policies and chat memory, so the AI can never guess or change a price.
- Streamed merchant replies word by word (SSE) and ran customer chat on WebSockets; a fallback finishes the answer if the LLM provider cuts a stream mid-way. Login uses Redis-backed JWT refresh rotation, and Razorpay keys are Fernet-encrypted.

Airix | [GitHub](#) | [Demo](#)

Jun 2026 – Jul 2026

Go, gRPC, Next.js, Three.js, PostgreSQL, AWS S3

- Built for the **Tata Technologies InnoVent 2026 Hackathon**: one workspace for AI-assisted aircraft design, browser-based 3D modeling, and fleet-maintenance analysis.
- Wrote login-protected Go APIs that call AI services over gRPC, and stored 3D model (GLB/GLTF) and image files in AWS S3.
- Let users generate 3D models from text or images and chat with an AI designer; generated models drop straight into the saved scene in the editor.

BrainRot Lang | [GitHub](#) | [Docs](#) | [VS Code](#)

Feb 2026 – Mar 2026

Go, VS Code Extension API, Next.js, GitHub Actions

- Built an interpreted programming language from scratch in Go, from parsing code (lexer, Pratt parser, abstract syntax tree) to running it (tree-walking interpreter), with closures, recursion, and error recovery; covered by **19 automated test suites**.
- Shipped a VS Code extension (syntax highlighting, snippets, hover docs), a Next.js docs site, and cross-platform releases automated with GitHub Actions.

Achievements

- AWS AI for Bharat Hackathon - Prototype Round Qualifier** | [Certificate](#) | June 2026: Built TaxCopilot, an AI tax-assistance MVP using Textract OCR, Bedrock, pgvector retrieval, and citation-validation workflows.

Education

Uka Tarsadia University

2023 – 2027

B.Tech in Computer Science Engineering | CGPA: 8.94/10.0