

Tanveer Singh

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

Software Engineer with 9+ months of internship experience building production web, AI, and real-time systems. Shipped a legal document editor used by **1,000+ professionals**, reduced AI response latency by **65%**, and built Go developer tools and WebRTC-based collaboration systems from first principles.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go, Python, C++
Frontend: React, Next.js, Redux, Tailwind CSS, Three.js
Backend & Data: Node.js, Express, REST APIs, WebSockets, WebRTC, PostgreSQL, Redis, MongoDB, pgvector
Cloud & Tools: AWS, Docker, Kubernetes, GitHub Actions, Jenkins, Argo CD, Prometheus, Git, Linux
Core CS: Data Structures & Algorithms, System Design, Computer Networks, Operating Systems, OOP

WORK EXPERIENCE

LawVriksh

Dec 2025 – Jul 2026

Software Engineer Intern · Remote

React, Next.js, Node.js, PostgreSQL, Redis, AWS, GenAI

- Built an AI legal document editor across the React/Next.js interface, Node.js APIs, PostgreSQL data layer, and Redis-backed workflows used by **1,000+ legal professionals**.
- Implemented streaming RAG workflows for OCR, fact verification, and legal-reasoning checks, reducing average AI response latency by **65%**.
- Automated rollback-safe releases with GitHub Actions, Jenkins, Docker, and AWS, cutting deployment cycles by **80%**; earned a **2-month extension** after the initial term.

Lupira

Aug 2025 – Sep 2025

Full Stack Developer Intern · Remote

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

- Delivered React, Next.js, Go, and Firebase features across **3+ client projects**; optimized Three.js rendering to sustain **60 FPS** on desktop and mid-range mobile devices.
- Replaced repeated REST polling with event-driven Firebase listeners, improving the responsiveness of real-time client interfaces.

PROJECTS

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

Jun 2026 – Jul 2026

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

- Built Airix for the **Tata Technologies InnoVent 2026 Hackathon**, unifying AI-assisted aircraft design, browser-based 3D modeling, and fleet-maintenance analysis in one workspace.
- Integrated the Next.js client with Go APIs and gRPC-backed AI services; implemented authenticated workspace endpoints and AWS S3 handling for GLB/GLTF and image assets.
- Connected text/image-to-3D generation and AI design chat to persisted scenes so generated models could be inserted directly into the active 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 and developer toolchain from first principles in Go, implementing the full lexer, Pratt parser, abstract syntax tree (AST), and tree-walking interpreter pipeline.
- Designed closures, lexical scoping, first-class functions, recursion, arrays, scope isolation, and error recovery; validated language behavior through **19 automated test suites**.
- Shipped a VS Code extension with syntax highlighting, snippets, and hover documentation, a Next.js documentation site, and automated cross-platform releases with GitHub Actions.

CoNestify | [GitHub](#) | [Case Study](#)

Feb 2025 – Mar 2025

Next.js, Node.js, WebRTC, MediaSoup, PostgreSQL, Redis

- Built a Slack-like collaboration platform with messaging, shared documents, virtual canvas, and group audio/video; implemented a MediaSoup-based SFU service load-tested at **500+ concurrent streams** with **sub-200 ms latency**.
- Used WebSockets and Redis-backed events for live state synchronization while PostgreSQL persisted workspace, channel, and messaging data.

ACHIEVEMENT

- 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: 8.82/10.0