

JALKARNA GAUTAM

FULL-STACK / AI DEVELOPER

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SUMMARY

Full-stack developer shipping production web, mobile, and AI systems with TypeScript, React/Next.js, Python, and Rust. Built client operations software, typed AI-action tooling, and a live Discord product active across 145 servers with 222K+ combined members. Hackathon winner with hands-on cloud, real-time, and API delivery experience.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Rust

Frontend & Mobile: React, Next.js, React Native, Tailwind CSS

Backend & Data: Node.js, FastAPI, PostgreSQL, MongoDB, Redis, WebSockets

AI & Native: Gemini API, tool calling, STT/TTS, Tauri, MCP

Cloud & Delivery: Docker, AWS, Azure, GitHub Actions, CI/CD

EXPERIENCE

Full-Stack Developer (Freelance): Upwork & direct clients

May 2022 - Present

- Design and deliver client-facing websites and internal operations products with Next.js, React, TypeScript, Python, databases, and cloud services.
- Own delivery from requirements and interface design through APIs, deployment, iteration, and direct client communication.

Full-Stack Developer Intern: NMS Softwares

Feb 2025 - Nov 2025

- Built application features with JavaScript, TypeScript, Python, React, AWS, and Azure in a collaborative production environment.
- Contributed across implementation, cloud-backed delivery, testing, and project communication during the completed nine-month internship.

SELECTED PROJECTS

Based: AI Discord Bot

Oct 2024 - Present

Python, discord.py, Gemini, Sarvam AI, asyncio

- Active across 145 Discord servers with 222K+ combined members and 105K+ messages sent.
- Built multimodal chat, image generation and analysis, summarization, an end-to-end STT/TTS voice pipeline, and background moderation.

Graphigo: Client Web & Operations Platform

2025 - Present

Next.js, TypeScript, authentication, role-based access, Kanban

- Designed and shipped the studio's public marketing site plus a private workspace for projects, assignments, clients, staff, payments, and invoices.
- Added delivery tracking, shared calendar and workload views, and performance reporting for earnings, deliveries, and on-time rate.

UAP: Local-First Agent Workspace

Jul 2026 - Present

Rust, Tauri, React, TypeScript, Wasmtime, SQLCipher, CDP

- Built a Rust/Tauri agent workspace with durable tasks, encrypted state, scoped tools, approvals, audit history, and explicit verification outcomes.
- Added isolated browser sessions, bounded shell/workspace access, and a deny-by-default Wasmtime plugin host.

Lexicon: Typed Capability SDK for Voice Actions

Jul 2026

TypeScript, Next.js, Gemini API, Gemini Live API, Web Audio API

- Built a framework-agnostic SDK mapping natural-language and live-voice intent to 32 typed application actions across 9 demo routes.
- Added schema validation, required-field collection, explicit confirmation policies, and Gemini typed/live adapters while keeping execution inside the host app.

ACHIEVEMENTS

- Winner & Team Leader: Vadodara Hackathon 5.0, 1st place among 500+ teams.
- Rank 2: Google for Developers PromptWars Virtual Challenge 3 for Carbon.
- Winner & Team Leader: PU Code Hackathon 2.0 for Signify.
- Finalist & Team Leader: Codeversity at IIT Gandhinagar for Skillz.
- Finalist & Team Leader: PU Tech Expo 2026 for Elato.

CERTIFICATIONS

- Engineer AI Agents with Agent Development Kit (ADK): Google, May 2026.
- Gemini for end-to-end SDLC: Google, May 2026, Credential ID 23929833.
- Introduction to Generative AI: Google, May 2026, Credential ID 23929747.

EDUCATION

B.Tech in Computer Science & Engineering: Karnavati University, Gandhinagar

2026 - Present

Diploma in Information Technology: Parul Polytechnic Institute, Parul University

2023 - 2026