Tushar Agarwal

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tushar.agarwal7373@gmail.com | Portfolio | Github | Twitter | LinkedIn

Skills

Languages JavaScript, TypeScript, Python, Solidity, Java, C/C++, SQL

Frontend React.js, Next.js, HTML, CSS, TailwindCSS, Framer Motion, Redux, Context API

Backend Node.js, Express.js, Hono, REST APIs, WebSockets, Prisma, PostgreSQL, MongoDB, Redis, OAuth

DevOps & Cloud Docker, AWS (EC2, S3, RDS), Cloudflare Workers, Nginx, CI/CD, GCP, Linux, Git/GitHub

AI, ML & Web3 Generative AI, RAG, LLMs, NLP, VectorDBs, LangChain, Hugging Face, Smart Contracts, Polygon

Experience

Software Engineer   *Remote*
RightLabs   *Dec 2024 – May 2025*

- Built *Starrd* – creator collaboration tool serving 12K+ users with Instagram/YouTube API integration, OAuth flows, and AI-driven analytics using Next.js, Node.js, MongoDB
- Implemented SSR with JWT validation, Redis caching, and real-time webhooks achieving 40% performance improvement
- Developed automated web scraping solutions processing 100K+ records daily with 99.8% accuracy using Javascript, Puppeteer, and intelligent anti-detection mechanisms

Projects

ShinoLearn – Web3 Language Learning Platform   (Demo)

- Revolutionary EdTech platform combining AI tutoring with financial incentives - users stake USDC on learning goals, earning 5-10% returns on completion or forfeiting stakes on failure
- Built team staking guilds and proof-of-learn leaderboards, achieving 85% user retention through loss aversion psychology
- **Tech:** Next.js, Polygon blockchain, OpenAI/Ultravox APIs, Smart Contracts, Voice AI, Ethers.js

Flow AI – End-to-End Marketing Automation Platform   (Live)

- Complete marketing suite: neural image enhancement, AI video generation from single images, automated voice campaigns with CSV contact processing
- Orchestrated complex AI pipelines (GPT → Veo2 → FFMPEG) with failure handling, Redis queues, and rate limiting
- **Tech:** Next.js, TypeScript, PostgreSQL, Prisma, OpenAI APIs, Docker, FFMPEG, Twilio, Cloudinary, Replicate

Maklach AI – Intelligent Call Management System   (Live)

- AI-powered call routing with real-time conversation analysis, knowledge bases, and WebRTC integration
- Built comprehensive call management infrastructure with outbound campaigns, custom voice assistants, and document-based knowledge integration serving enterprise clients
- **Tech:** Next.js, TypeScript, AI APIs, WebRTC, Ultravox, Vector Databases, Stripe, Docker

Achievements

- **Hackathon Champion:** Won 5+ hackathons for AI/Web3 innovation (Images)
- **Freelance Work** – Delivered 8+ production-ready applications with 100% client satisfaction rate
- **Technical Leadership:** Published technical articles and mentored developers (Blog)
- **National Sports Champion:** National-level skating competitor with multiple state and regional medals

Education

Chitkara University, Himachal Pradesh   *Aug 2023 – Jul 2027*
B.Tech Computer Science Engineering - 8.86 CGPA

Coursework: Data Structures & Algorithms, OOP, Operating Systems, Computer Architecture, DBMS, Computer Networks