

# Gaurav Singh

Computer Science and Engineering  
Bachelor of Technology  
UIET MDU

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Portfolio

## EDUCATION

UIET MDU, Rohtak – Bachelor of Technology in Computer Science and Engineering

2021 – 25 · CGPA: 9.0

## EXPERIENCE

### Turnix

April 2025 – Present

Software Developer

Gurgaon, India

- **Verifox.ai** (*Project Lead, 5-engineer team*) – Led end-to-end delivery of an AI email-verification SaaS: a 9-point engine (syntax, MX, live SMTP, IMAP, disposable detection) with a **Rust** validation core behind a **Hono/TypeScript** API; AI catch-all resolution via a **Qdrant** vector DB and graph clustering (graphology/Louvain) backed by Anthropic, OpenAI & Cohere; a **Redis + BullMQ** bulk CSV/Excel pipeline; sub-50ms real-time API and Stripe credit billing – reaching **98.7% accuracy**.
- **Vlon.ai** – Built features for an AI design agent producing print-ready textile artwork: **Magic Fill** for colour/motif edits (canvas/SVG), AI generation & upscaling via **ComfyUI + fal.ai + Google Gemini**, production export to SVG/PSD/TIFF (ag-psd, resvg), plus **Drizzle**-backed Git-style version control.
- **Prospetto.ai** – Contributed to a B2B sales-intelligence platform serving **200M+ contacts** across **600+ data sources**: company enrichment, email finder, and outreach on a Hono API with a dual **PostgreSQL + MongoDB** store, Redis/BullMQ pipelines, and an **Apache Arrow Flight** data pipeline.
- **Dbtapp.ai** – Built a cross-platform **React Native + Expo** mobile app (React Navigation, TanStack Query) backed by an **Express/MongoDB** API with BullMQ pipelines and OpenAI-powered real-time features.
- Contributed across **25+ products** org-wide – incl. AI voice-calling (**Twilio + OpenAI** on Hono), RAG assistants (Vercel AI SDK + pgvector), **Temporal**-orchestrated durable workflows, GPU inference on **RunPod**, and **PySpark / Delta Lake** data pipelines.
- Configured automated **n8n** workflows and webhook systems across products to streamline event-driven business pipelines.

### Betazen InfoTech

Jan 2025 – March 2025

Frontend Developer

Remote

- Utilized **React with Redux Toolkit** to implement robust state management, enabling efficient data flow and enhancing performance across complex web applications.
- Integrated **TypeScript** with React and Redux to ensure type safety, reduce runtime errors, and improve maintainability in large-scale projects.

## TECHNICAL SKILLS AND INTERESTS

**Programming Languages:** TypeScript, JavaScript, Rust, Java, Python, C/C++, SQL · Data Structures and Algorithms.

**Technologies:** HTML, CSS, Bootstrap, Tailwind CSS, jQuery, React.js, EJS, Redux Toolkit, Zustand, Zod, ShadCN/Radix, Node.js, Hono, Express, Mongoose, Drizzle ORM, RESTful APIs, BullMQ, Redis, Temporal, Twilio, better-auth, JWT, OAuth, GSAP, Framer-Motion, Remotion, Konva, NumPy, Matplotlib.

**AI / ML:** OpenAI, Anthropic, Cohere, Google Gemini, fal.ai, ComfyUI, RunPod, Vercel AI SDK, RAG / vector search, pgvector.

**Data Engineering:** PySpark, Delta Lake, Apache Arrow Flight, PyArrow, pandas, Jupyter.

**Frameworks:** Next.js, Express.js, Hono, React Native, Expo.

**Cloud / Databases:** MongoDB, PostgreSQL (+ pgvector), Qdrant, ParadeDB, MySQL/MariaDB, AWS, DigitalOcean, RunPod, Docker, Terraform, Ansible, Jenkins, GitHub Actions.

**Web Scraping (Expert):** Puppeteer, Playwright, Cheerio, BeautifulSoup, Scrapy, Selenium – large-scale data extraction and crawler design.

**Commerce / CMS:** Shopify/Liquid, Stripe, Cloudinary, TipTap, UploadThing.

**Web3 Technologies:** Solidity, Ethereum, MetaMask, Smart Contracts, IPFS/Pinata, Web3.js, Hardhat.

**Web Dev Tools:** Postman, Appwrite, VS Code, Git, GitHub, Jupyter, Firebase, Cloudflare, Supabase, Eclipse.

**Others:** Ubuntu (Linux), Unix Commands, Shell Script, Resend, MailTrap, Vercel, Netlify, Mac · **Automation:** n8n.

**Relevant Coursework:** DAA, Operating Systems, OOP, DBMS, Software Engineering, System Design.

## PROJECTS

**Interview AI** *Next.js, ShadCN UI, Drizzle ORM, PostgreSQL, Clerk, Gemini, Stripe*

Source ↗

- Built a Next.js + ShadCN UI platform for AI-powered interview management with automated candidate scoring and feedback generation via **Gemini**.
- Architected a comprehensive analytics dashboard on **Drizzle ORM + PostgreSQL** with interactive visualizations of hiring metrics and candidate comparisons, plus JSPDF report generation.
- Wired authentication with Clerk and credit-based access through Stripe payment processing.

**Bug-bucket** *Next.js, Appwrite, Zod, Zustand, OAuth*

Source ↗

- Engineered secure login, email, and OAuth authentication for a developer Q&A platform – posting, answering, commenting, and up/down-voting with a reputation-tracking system.
- Built a scalable, server-side-rendered app with Next.js, Appwrite backend services, Zod schema validation, and Zustand state management, with OAuth and email verification.

**Sutikala** *Next.js, MongoDB/Mongoose, Stripe, Cloudinary, TipTap*

Live ↗

- Shipped a production ethnic-wear storefront in Next.js with a Stripe checkout, a Cloudinary media pipeline, and better-auth – built and deployed end to end for the client.
- Developed a self-serve admin/CMS (TipTap rich-text on MongoDB/Mongoose) so the owners manage products, content, and orders without engineering involvement.

**Gloweza** *Shopify, Liquid, JavaScript*

Live ↗

- Built a bespoke **Shopify / Liquid** theme from scratch for a beauty & wellness brand – custom sections, snippets, and a configurable settings schema for code-free content management.

## ACHIEVEMENTS

- Qualified **GATE 2024** with All India Rank 15,000+.
- Solved **1,000+** coding challenges across LeetCode, CodeStudio, and CodeChef.
- Achieved near-**Knight** on LeetCode, **3-Star** CodeChef, and a 3,724 peak on CodeStudio.
- Secured **4th rank** in Smart India Hackathon (college level); completed 3+ hackathons.