

Subrat Kumar Chowdhary

Senior Full-Stack Engineer — End-to-End Product Delivery

Next.js · TypeScript · .NET Web API · FastAPI · SQL Server · PostgreSQL · Docker · Ubuntu VPS

India · Open to Remote Full-Time & Contract Roles

Email: hello@subrat.io · Phone: 9060445578

Portfolio: <https://subrat.io>

Public Developer Product: **Subrat DevTools — Free Developer Utilities** · <https://developer.subrat.io>

GitHub: <https://github.com/Subrat-Chowdhary>

Most production and client-style repositories are private due to project sensitivity. Selected code samples, architecture notes, and public demo repositories can be shared where appropriate.

Professional Summary

Senior full-stack engineer focused on building and shipping practical business applications from requirements to deployment. I work across frontend workflows, backend APIs, database design, authentication, RBAC, file workflows, deployment, debugging, documentation, and manual QA.

My strongest fit is remote full-time or contract delivery for foreign startups, founders, agencies, and small engineering teams that need a reliable engineer who can own complete features, communicate clearly, and move products forward without heavy supervision.

Recent work includes business management/admin systems, SaaS-style monetization flows, automation platforms, secure vault architecture, public developer utilities, and AI-enabled backend/search experiments. I use AI coding tools responsibly for planning, review, debugging, and documentation while keeping engineering judgment, security, and maintainability in control.

Core Value Proposition

I help startups and business teams build, fix, and ship full-stack software across frontend, backend, database, and deployment.

I am strongest when the work requires:

- Turning vague business requirements into implementation-ready plans
- Building complete frontend + backend features
- Designing practical database-backed workflows
- Integrating APIs, forms, dashboards, RBAC, and operational screens
- Debugging across the full stack
- Deploying to VPS/Linux environments with production-safe discipline

- Maintaining clear written updates, setup notes, test steps, and release records
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Core Technical Stack

Frontend

Next.js, React, TypeScript, JavaScript, Tailwind CSS, shadcn/ui, Framer Motion, responsive UI, admin dashboards, forms, data tables, role-based screens, API-driven frontend flows.

Backend

.NET Web API, FastAPI, Node.js, Express-style services, Fastify-style services, REST API design, JWT authentication, role-based access control, validation, file upload workflows, modular backend architecture, business-rule implementation.

Databases & Storage

SQL Server, PostgreSQL, Prisma, relational schema design, migrations, seed data, query testing, Dockerized databases, MinIO-style object storage, vector-search-ready backend architecture.

DevOps & Deployment

Ubuntu VPS, Docker, nginx, systemd services, environment variables, dev/staging separation, port and service collision checks, static frontend deployment, backend service deployment, production-safe release workflow.

AI-Assisted Engineering

ChatGPT, Codex CLI / coding-agent workflows, prompt engineering, architecture prompts, implementation review prompts, structured evaluation, AI-assisted debugging, test planning, documentation generation.

Engineering Workflow

Git, GitHub, branch discipline, atomic commits, audit-safe workflow, no-secret commits, reproducible setup notes, deployment notes, manual QA checklists, Swagger/Postman-style API testing.

Selected Project Experience

RiceCalc — Business Operations Platform / ERP-Style Admin System

Role: Full-Stack Developer / Architect / Deployment Owner

Stack: Next.js, React, TypeScript, Tailwind CSS, .NET Web API, SQL Server, Docker, nginx, Ubuntu VPS

Built and maintained a production-style business management platform for rice-industry operations with frontend admin flows, backend APIs, SQL Server persistence, local/dev/staging environments, and structured deployment practices.

Key Contributions

- Owned end-to-end delivery across Next.js admin UI, .NET Web API backend, SQL Server database, and VPS deployment workflow.
- Built and integrated admin dashboards, master-data workflows, operational business flows, authentication/RBAC, upload workflows, and API-driven frontend screens.
- Worked across frontend UI, backend APIs, database contracts, API adapter layers, and deployment validation.
- Managed local development, DEV environment, and STAGING environment alignment.
- Implemented clear environment separation across frontend folders, backend services, ports, and databases.
- Supported backend startup, Swagger validation, API testing, environment variable handling, and manual smoke testing.
- Worked with nginx routing, systemd services, Dockerized SQL Server, and VPS deployment concerns.
- Followed disciplined Git workflow with branch checks, atomic commits, production-path validation, and no-secret deployment discipline.

Outcome

Delivered a structured, business-focused full-stack system with practical deployment readiness, strong operational documentation, and a production-safe delivery workflow.

Subrat DevTools — Free Developer Utilities

Role: Product Builder / Frontend Developer

Type: Public developer-facing product

URL: <https://developer.subrat.io>

Built and maintain a free public developer-utilities product focused on quick, practical tools for developers.

Key Contributions

- Created a public-facing developer tools site separate from private client and production projects.
- Focused on practical utility, simple UX, fast access, and developer-friendly workflows.
- Demonstrates product thinking, frontend execution, public web delivery, and the ability to ship useful tools beyond private repositories.
- Provides a public proof-of-work asset that complements private client-style project experience.

Outcome

Strengthens public credibility by showing a real developer-facing product that can be visited, reviewed, and improved over time.

HireCTX / First Cut — Freemium Monetization & Lead Capture Layer

Role: Full-Stack Feature Builder / Product Engineer

Stack: React / Next.js-style frontend, backend APIs, production deployment workflow

Worked on monetization and freemium feature design for a production-facing product, focusing on upgrade nudges, premium lead capture, and revenue-aware user flows.

Key Contributions

- Designed SaaS-style freemium access behavior with configurable visible-result limits and masked premium results.
- Planned non-intrusive upgrade nudges around threshold-based usage.
- Added premium lead capture concepts including phone number, rating, and feedback signals.
- Preserved existing production data and avoided risky deployment behavior.
- Considered future ETL/reporting hooks for business intelligence and sales follow-up.

Outcome

Helped evolve the product toward SaaS-style monetization without disrupting the existing user experience or production data.

Client Automation OS — Small Business / Preschool Automation Platform

Role: Full-Stack Product Builder

Stack: Next.js, TypeScript, Prisma, PostgreSQL, automation workflows

Built toward a client automation platform aimed at small-business operations, with preschool operations as the first practical target segment.

Key Contributions

- Planned workflow modules around real preschool business needs and daily operations.
- Designed automation-oriented flows for communication, task tracking, operational records, and structured sample data.
- Used Prisma-backed database workflows with migration readiness checks.
- Prioritized reproducible local setup, database readiness, and development hygiene before feature testing.
- Focused on a subscription-style product foundation with a clear first customer segment.

Outcome

Created the foundation for a practical small-business automation platform with a focused real-world use case and repeatable development workflow.

Digital Afterlife Vault — Secure Legacy & File Vault Platform

Role: Architect / Prompt Engineer / Full-Stack Planner

Stack: TypeScript, Node/Fastify-style backend, JWT authentication, secure file workflow concepts

Worked on architecture and implementation planning for a sensitive digital vault product involving authentication, protected routes, secure backend practices, and AI-assisted implementation workflows.

Key Contributions

- Defined secure backend development workflow with JWT access and refresh secret handling.
- Maintained strict environment safety and no-secret-commit discipline.
- Used structured Codex prompts to delegate implementation while preserving architectural control.
- Focused on branch discipline, audit safety, protected routes, and secure feature delivery.

Outcome

Established a secure and reviewable agent-assisted development workflow for a sensitive product category.

Backend-AI / Search Architecture Experiments

Role: Backend-AI Developer / Integrator

Stack: FastAPI, JWT, MinIO-style storage, Qdrant/vector-search-ready architecture, file upload/search workflows

Explored backend-AI architecture for file upload, protected search, object storage, and retrieval-oriented workflows.

Key Contributions

- Worked with FastAPI service patterns and JWT-protected APIs.
- Planned protected file upload and search-oriented backend architecture.
- Designed around object-storage patterns and vector-search-ready retrieval workflows.
- Considered separation between frontend user management and backend AI services.

Outcome

Built practical exposure to AI-enabled backend design beyond standard CRUD applications.

Selected Strengths

- End-to-end feature ownership from requirement breakdown to deployment
 - Strong frontend-backend integration mindset
 - Practical business workflow implementation, not just isolated UI/API work
 - Comfortable with both TypeScript/JavaScript and .NET backend ecosystems
 - Practical deployment experience on Ubuntu VPS with nginx, Docker, and systemd
 - Strong understanding of environment separation, staging validation, and production safety
 - Responsible use of AI tools for faster delivery, review, debugging, and documentation
 - Clear fit for remote work due to written communication, documentation discipline, and async-friendly workflow
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Remote Work Readiness

- Can work independently with clear written updates and structured task breakdowns
 - Comfortable converting vague business requirements into implementation-ready plans
 - Maintains clear setup notes, deployment records, smoke-test steps, and review checklists
 - Uses Git branches, atomic commits, and no-secret workflow discipline
 - Can collaborate with founders, product owners, senior developers, and small engineering teams
 - Comfortable with async communication, issue breakdown, delivery notes, and handover documentation
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Tools

Git, GitHub, VS Code, ChatGPT, Codex CLI / AI coding agents, Docker, Ubuntu terminal, nginx, systemd, Swagger, Postman-style API testing, Prisma CLI, SQL Server tools.

Education

Graduate + HDSE — Higher Diploma in Software Engineering

Aptech · 1997

Target Roles

Open to remote full-time, contract, and freelance product-development roles for foreign clients.

Preferred roles:

- Senior Full-Stack Engineer
- Remote Full-Stack Developer
- Full-Stack Product Engineer

- Frontend + Backend Integration Engineer
 - SaaS / Internal Tools Developer
 - Startup Technical Builder
 - AI-Assisted Engineering / Product Delivery Specialist
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Referral / Introduction Note

I am actively looking for remote full-stack development opportunities with foreign clients, startups, agencies, and small engineering teams. I have hands-on experience building practical business applications, admin systems, backend APIs, database-backed products, deployment workflows, public developer tools, and AI-assisted engineering processes.

I can contribute across frontend, backend, debugging, deployment, documentation, and product execution, with a strong focus on business value, clear communication, and reliable delivery.