

Piyush Utkar

Full-Stack Engineer — React / Next.js / Node / Python

contact@404piyush.me · 404piyush.me · Mumbai, India (UTC+5:30) · github.com/404Piyush · [LinkedIn](#) · [Upwork](#)

SUMMARY

Full-stack engineer shipping end-to-end web products — React / Next.js frontends, Node and Python APIs, PostgreSQL / MongoDB persistence, and real-time features over WebSocket and RabbitMQ. Recent work includes a developer-observability platform with async event ingestion, a production-deployed classroom management system with a Java desktop client, and full case-management / personal-finance SaaS apps built on Render and Vercel. Equally comfortable in TypeScript and Python; ship with tests, CI, and deploy scripts from day one.

SELECTED PROJECTS — FULL-STACK

DevObservatory — developer observability platform 2026

FastAPI · SQLAlchemy · Next.js 15 · RabbitMQ · Postgres · Redis · MinIO · Docker

- Async ingest pipeline: client → API → RabbitMQ → worker → Postgres; Next.js BFF routes proxy to the backend with httpOnly JWT cookies.
- Multi-tenant orgs/projects, per-project API keys, SlowAPI rate limiting, Alembic migrations, full Docker Compose stack with Postgres + Redis + RabbitMQ + MinIO.

Case Management System — legal SaaS 2025

React 18 · TypeScript · Vite · Tailwind · shadcn/ui · Node · Express · MongoDB · Mongoose · JWT

- Role-based access (Boss / Lawyer / Law Firm), case timeline with location + photo evidence, GridFS-backed document storage with chunked streaming.
- Timestamp-based photo-matching logic fixed a real correctness bug; status workflow `bank_visit` → `reactivated` → `completed` with live UI updates.
- Production-deployed on Render: `case-management-system-1-tuur.onrender.com`.

PFIMS — Personal Finance Management System 2025

React · Redux Toolkit · Tailwind · Node · Express · MongoDB · JWT · bcrypt

- Full MERN app: dashboard, transactions, budgets, categories, reports/analytics. Comprehensive API testing scripts for budgets / categories / transactions / reports.
- Redux state fixes and improved nested-response handling across all slices.

CMMS — Classroom Management & Monitoring System 2025

Node.js · Express · MongoDB · WebSocket · JWT · Java (JavaFX) · Maven

- Real-time teacher → student control plane over WebSocket with JWT auth, application blocking, and website filtering. Helmet, CORS, rate limiting.
- Cross-platform Java desktop student client (Maven build) with MongoDB Java driver.

Discord Community Manager Bot 2025

Python · discord.py · SQLite

- Modular cogs architecture; verification (button / math captcha / text captcha / emoji / image / word scramble), moderation, warnings, starboard, RSS feeds, tags.
- Slash-command interface, mobile-friendly forms, role-based permissions, automatic DB migrations.

Syndicate's Den — Discord casino bot 2025

Java 17 · JDA 5 · SQLite · SLF4J · Maven

- Six casino games (Dice, Roulette, Slots, Blackjack, Russian Roulette, Coin Flip) with mathematically accurate payouts and persistent user wallets.

ViewMax Workshop Bot 2026

Node.js · discord.js · MongoDB · PostgreSQL

- Discord community bot with MongoDB-backed state and Postgres for analytics.

Easy File Share — cross-device file transfer 2025

React 18 · Vite · Socket.io · Express · MongoDB · Multer

- QR-code pairing + WebSocket transfer with real-time progress; local-network IP auto-detection for cross-device sharing.

SkillSpark (rest-express template) 2025

Vite · React · TypeScript · Express · Drizzle ORM · PostgreSQL

- Production-ready full-stack template: Vite + React frontend, esbuild-bundled Express server, Drizzle migrations.

SELECTED CLIENT WORK (UPWORK, 2025–2026)

- **Discord Bot Developer — Email Verification & Role Management** — 5.0 rating; production-deployed.
- **Discord Bot — Voice Chat Integration with LLM** — 5.0 rating; \$350 fixed.
- **TG → Discord bot migration** — 5.0 rating: *"Awesome communication and work. Super recommended."*
- **Senior Trading Systems Engineer (C#, Crypto + HFT + Multi-Exchange Execution)** — delivered C# execution module.
- **Multiple Web3 backend integrations** — Arbitrum / EVM contracts for client token-swap products.

SKILLS

Frontend	React 18, Next.js (App Router), Vite, TypeScript, Tailwind, shadcn/ui, Framer Motion, Vite, React Router
Backend (Node)	Node.js, Express, Fastify, JWT auth, WebSocket (ws / Socket.io), Multer, Helmet, RBAC
Backend (Python)	FastAPI, SQLAlchemy, Alembic, Pydantic, SlowAPI, asyncio, aio-pika
Data	PostgreSQL, MongoDB, Mongoose, Drizzle ORM, Redis (rate-limit), GridFS, SQLite
Async / infra	RabbitMQ, Docker, Docker Compose, Render, Vercel, GitHub Actions
Java / desktop	Java 17, JDA, discord.py, JavaFX, Maven, MongoDB Java driver
Quality	pytest, mypy, ruff, ESLint, Prettier, TypeScript strict, GitHub Actions CI

OPEN SOURCE

- github.com/404Piyush/DevObservatory · [/cmms](#) · [/discord-community-manager](#)
- [/file-share-app](#) · [/discord-gambling-bot](#)
- Portfolio: 404piyush.me

Self-taught. References and verified client deliverables available on request.