

Yogesh Chandra

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EDUCATION

Govind Ballabh Pant University of Agriculture and Technology

Uttarakhand, India

CGPA: 7.89

2020 – 2024

PROJECTS

Sweaver | *Rust, Actix-Web, Tokio, Next.js, PostgreSQL, Redis, Whisper.cpp, FFmpeg, Docker*

[Live](#) | [GitHub](#)

- Built a context-aware encrypted video delivery API — upload an MP4, receive an AES-128 encrypted HLS stream, AI-generated chapters, seek-bar sprite thumbnails, and a full transcript with zero FFmpeg or crypto config on the client.
- Designed a fully decoupled 4-layer architecture: Rust/Actix-Web gateway → Redis queue → isolated Python/Rust worker → S3 CDN; each layer scales and fails independently.
- Implemented a parallel Tokio pipeline (audio branch: WAV → Whisper.cpp → chapters; video branch: AES keygen → HLS transcode → sprites) cutting total processing time nearly in half.
- Zero-trust key architecture: AES decryption keys live in PostgreSQL, served with per-request JWT auth — a full S3 exfiltration yields nothing playable.

Redshift | *Rust, Solana, Anchor, Actix-Web, Tokio, Ratatui, Redis, PostgreSQL*

[GitHub](#)

- Built a Solana-based custodial payment pipeline with a full on-chain multisig flow: create transaction → collect 5 owner approvals → treasury transfer, all executed via custom Anchor smart contracts.
- Architected a 5-crate Rust workspace (API, shared services, async worker, TUI monitor, load-testing script) with Redis as the job queue and event bus between layers.
- Built a real-time terminal dashboard (Ratatui) with live job-stage tracking, wallet balances, on-chain signatures, and hotkey-driven process management for the backend and worker.

Amipay | *Rust, Actix-Web, Solana, Anchor, React Native (Expo), DeepSeek AI, Docker, Nginx*

[Contract](#) | [Live](#)

- Built a conversational remittance app where natural-language commands like “Send \$100 to Mom” are parsed by DeepSeek AI, validated by a Rust backend, and settled on-chain via Solana USDC smart contracts.
- Enforced a strict AI security boundary — the model acts as a pure intent translator and never sees private keys, wallet addresses, or balances; all sensitive ops live in the Rust layer.
- Delivered a React Native / Expo mobile app with chat UI, tab navigation, Solana Mobile Wallet Adapter integration, and a custodial wallet model requiring zero blockchain knowledge from users.

Learnverge | *React, Express.js, Rust, MongoDB, Redis, RabbitMQ, FFmpeg, Docker, Nginx*

[Live](#) | [GitHub](#)

- Built a full-stack course selling platform with instructor course creation, chunked Cloudinary video uploads, HLS streaming, PDF notes, and per-lesson progress tracking for students.
- Used a polyglot backend: Node.js/Express for API and auth (JWT + Google OAuth), and a Rust async worker (Tokio + Lapin) consuming RabbitMQ jobs for CPU-heavy FFmpeg video transcoding.
- Containerized the full stack with Docker Compose including read-only containers, resource caps, PID limits, and Nginx reverse proxy for a hardened production deployment.

TECHNICAL SKILLS

- **Frontend:** Next.js, React.js, React Native (Expo), TypeScript, JavaScript, Tailwind CSS, Framer Motion, SVG, HTML, CSS
- **Backend:** Rust (Actix-Web, Tokio, Diesel), Node.js, Express.js, PostgreSQL, MongoDB, Redis, RabbitMQ, Prisma, WebSockets
- **Blockchain:** Solana, Anchor Framework, SPL Token, Solana Mobile Wallet Adapter, USDC / Stablecoins
- **Infra & DevOps:** Docker, Docker Compose, Nginx, FFmpeg, Whisper.cpp, Cloudinary, AWS S3 / Cloudflare R2
- **Design:** Figma, Framer **Tools:** Git, GitHub
- **Soft Skills:** Effective Communication, Critical Thinking, Problem Solving, Collaborative Teamwork

Solana Monolith Hackathon | *AI-Based Remittance Application*

March 2026

- Developed an AI-powered remittance application that enables users to send money using simple natural language commands (e.g., “ send \$100 to mom ”).
- Integrated AI to parse user intents and securely execute financial transactions, streamlining the payment process.