

ABHISHEK CHOUDHARY

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SUMMARY

Computer Science undergraduate and Full-Stack Developer with production experience shipping multi-tenant SaaS platforms and AI-integrated web apps across Next.js, Laravel, and Python. Strong foundation in DSA, OOP, REST APIs, and LLM integration.

EDUCATION

University Institute of Technology, RGPV <i>Bachelor of Technology in Computer Science and Engineering</i>	2023 – 2027 <i>Bhopal, India</i>
Jawaharlal Nehru School <i>Higher Secondary School (12th Grade) – PCM Stream</i>	2021 – 2022 <i>Bhopal, India</i>

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, TypeScript, PHP, SQL, HTML5, CSS3

Frameworks & Libraries: Next.js 15, React 19, Node.js, Express, Laravel 13, Livewire 4, Flask, Tailwind CSS, Vite, shadcn/ui, Alpine.js, Blade

Databases: PostgreSQL (Supabase), MySQL, SQLite, Redis, Eloquent ORM

Developer Tools: Git, GitHub, Docker, Composer, npm, Postman, VS Code, GitHub Copilot, Octokit, Gunicorn

AI / LLM: Google Gemini API, Anthropic Claude API, Prompt Engineering, RAG, Vector Databases

Core Concepts: Data Structures & Algorithms, OOP, OAuth, REST APIs, Multi-tenant SaaS, RBAC, MVC

EXPERIENCE

SimptionTech Pvt Ltd ↗ <i>Full-Stack Developer</i>	May 2025 – Present <i>Bhopal, India</i>
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- Built the core architecture for Simption ERP, a multi-tenant SaaS on Laravel 13 + Livewire 4 designed to serve 1000+ institutions, with an isolated MySQL database per tenant via stanc/tenancy v3.10 and subdomain-based routing; automated provisioning brought institute onboarding to under 10 minutes.
- Implemented a custom TenantResolver and NoOpDatabaseManager fitted to a legacy schema, with middleware enforcing per-tenant status checks (Active/Blocked); tuned tenancy bootstrappers (Database, Queue, conditional Cache) to sidestep Laravel 13 serialization pitfalls and file-cache tag limitations.
- Created a pluggable module system under app/Modules/* covering 20+ modules (Students, Staff, Library, Assets, Stock, Security, Backup, Login, Dashboard, etc.) where each module ships its own service providers, views, models, routes, Livewire components, and RBAC permissions via a JSON config — cutting new-feature rollout time by ~40%.
- Added authentication with 2FA, session-based access control, Spatie-based RBAC, and a cache-prefixed SecurityService working safely under both file and Redis drivers; built a real-time Security dashboard wired to live database metrics.
- Wrote a DB-driven, per-tenant configurable image upload pipeline (resize/crop presets) backed by AWS S3, plus an institute-type-aware layer (school, college, coaching) with dynamic Student Registration.

PROJECTS

AI Question Paper Generator ↗ — Python, Flask, Gemini API, MySQL	2025
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- Built a Flask platform that pairs the Google Gemini API with a hierarchical question bank (Boards → Classes → Subjects → Chapters) to generate CBSE, ICSE, and state-board papers with control over question type, difficulty, and marks distribution.
- Added multi-format export to PDF (WeasyPrint) and Word (python-docx) with bilingual English/Hindi support via Noto Sans Devanagari, plus auto-generated answer keys with explanations.
- Designed a fallback chain (Gemini Flash → Pro → 2.0 Flash → local DB → placeholder) for zero-downtime generation; containerized with Docker and deployed on Render via Gunicorn.

Brosplit – Multi-Currency Expense Splitter ↗ Next.js 15, TypeScript, Supabase, Tailwind CSS	2025
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- Built a full-stack expense-splitting app in Next.js 15 with Supabase Auth, HTTP-only cookie sessions, 7-day token group invitations, and a deterministic remainder-split algorithm with creditor-approved repayments preventing one-sided settlements.
- Designed a per-currency greedy debt-simplification engine (max-creditor vs max-debtor matching) with real-time in-app notifications fanned out to participants on each expense addition.

CodeHeal – AI Code Remediation SaaS ↗ React 19, Node.js, Express, Gemini API, Octokit	2025
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- Built a GitHub OAuth AI agent using Gemini to detect and auto-fix bugs (syntax, lint, logic, type) across Python, JS/TS, Go, Ruby, Java, and C++ repos, committing fixes to a new branch via Octokit.
- Engineered a parallel pipeline analyzing 10 files concurrently; hardened auth with JWT sessions, AES-256-GCM token encryption, Helmet, rate limiting, and timing-safe comparisons.