

ATHARV TRIPATHI

Software Engineer | Gurugram, India
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SUMMARY

Software Engineer focused on **full-stack development**, with hands-on experience building **production-grade APIs, web applications, and healthcare commerce systems** using **React, TypeScript, JavaScript, Python, Flask, MySQL, Docker, Terraform, and AWS**. Strong foundation in **REST APIs, SQL/NoSQL databases, payments, marketplace workflows, and system design**. Experienced with **authentication, Razorpay integrations, webhooks, idempotency, asynchronous processing, CI/CD pipelines, cloud deployments, and production reliability**. Comfortable owning features end-to-end across **customer, provider, admin, and infrastructure systems**, while debugging real production issues and shipping reliable product workflows.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, Java
- **Backend Development:** Flask, Node.js, Express.js, REST APIs, JWT Authentication, Asynchronous Processing
- **Frontend Development:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Shadcn
- **Databases:** MongoDB, MySQL, SQL, Database Design, Redis, Postgresql
- **Cloud & DevOps:** AWS ECS Fargate, RDS, S3, SQS, CloudFront, Secrets Manager, ALB, Docker, Terraform, GitHub Actions, CI/CD
- **Tools & Platforms:** Git, GitHub, Postman, VS Code, Firebase, Supabase, Vercel, Linux
- **Testing & Reliability:** pytest, Error Handling, Production Debugging
- **Core Concepts:** Data Structures and Algorithms, System Design, API Design, RBAC, Asynchronous Processing, Agile/Scrum, Code Reviews

PROFESSIONAL EXPERIENCE

Software Engineer

May 2026 - Present

KwikMedi

Gurugram, India

- Built and maintained production healthcare commerce applications across customer, provider, admin, and landing platforms using React, TypeScript, JavaScript, Capacitor, Python, Flask, MySQL, Docker, Terraform, and AWS.
- Developed REST APIs and full-stack workflows for medicine ordering, checkout, prescriptions, payments, inventory, provider operations, lab tests, wallet, finance, notifications, delivery, invoices, and support operations.
- Built the medicine order lifecycle from quote generation and provider eligibility checks to prescription approval, Razorpay payment sessions, idempotent order creation, fulfillment allocation, refunds, delivery tracking, and invoice generation.
- Designed marketplace fulfillment workflows for pharmacy/provider allocation, provider invitations, stock offer submission, deterministic offer ranking, item-level assignment, shipment readiness, and admin recovery operations.
- Implemented payment reliability systems using Razorpay webhooks, payment intents, event logs, stale payment recovery, refund workflows, wallet accounting, provider payout requests, and admin reconciliation tooling.
- Managed production infrastructure with Terraform, AWS ECS Fargate, RDS MySQL, Redis, SQS, S3, CloudFront, Secrets Manager, ALB, Docker, Alembic migrations, structured logging, health checks, and pytest coverage.

Software Engineer

Feb 2026- May 2026

Connect Astro

Jaipur, India

- Re-architected the authentication system to resolve token lifecycle issues, session persistence failures, and login reliability problems in production.
- Built end-to-end booking and payment workflows covering user intake, dynamic slot selection, Razorpay checkout, webhook retry handling, idempotency, and asynchronous session provisioning.
- Implemented database-level slot locking with a 5-minute hold window to prevent double-bookings and race conditions during concurrent booking attempts.
- Integrated Supabase Realtime for live chat, Daily.co for video/voice sessions, and WhatsApp API for automated booking notifications and session updates.
- Optimized PostgreSQL performance with targeted indexing and supported deployment workflows across Vercel, Supabase, and GitHub Actions CI/CD.

- Owned the event booking and payment lifecycle, including user registration, admin approvals, payment processing, full/partial refunds, time-based refund policies, and audit logging.
- Built admin dashboard workflows for event management, booking oversight, approval/rejection actions, refund controls, and payment reconciliation using webhook-driven updates.
- Implemented Firebase Authentication with Admin SDK and JWT-based RBAC for Super Admin, Admin, and User roles, enabling secure claim-driven access control.
- Designed MongoDB schemas for users, events, bookings, transactions, payments, coupons, and audit logs, improving consistency across payment and booking flows.
- Developed dynamic pricing and coupon workflows with coupon creation, redemption tracking, discount validation, and payment integration; shipped features used by 10,000+ users.

Backend Developer
Infosys Springboard

Oct 2024- Jan 2025
Delhi, India

- Owned the event booking and payment lifecycle, including user registration, admin approvals, payment processing, full/partial refunds, time-based refund policies, and audit logging.
- Built admin dashboard workflows for event management, booking oversight, approval/rejection actions, refund controls, and payment reconciliation using webhook-driven updates.
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PROJECTS

Vistream - Video Streaming Platform

[Live](#) | [Github](#)

- Built a full-stack subscription-based video streaming platform using Next.js and Express.js, with content access gated by active subscription status.
- Implemented Razorpay payment integration with HMAC SHA256 signature verification and idempotent webhook handling to prevent duplicate subscription activation.
- Developed an admin dashboard for video uploads, content management, subscription control, and platform operations.
- Implemented secure video delivery using AWS S3 pre-signed URLs, ensuring videos are not publicly accessible and playback links are issued only after server-side authorization.
- Deployed the platform on AWS EC2 behind Nginx with Docker-based containerization, reverse proxy configuration, caching, and CI/CD through GitHub Actions.

Rido - Ride Booking Platform

[Live](#) | [Github](#)

- Built a ride-booking backend with separate passenger, driver, and admin modules, each using dedicated JWT authentication and role-based access control.
- Implemented driver availability, ride request, driver assignment, trip status transitions, and ride completion workflows.
- Added real-time ride tracking using Socket.io, enabling drivers to broadcast live location updates and passengers to receive continuous trip status updates.
- Integrated Mapbox APIs for geocoding and routing, and used MongoDB geospatial queries for proximity-based driver discovery.
- Developed fare calculation logic using distance and duration, separating estimated fare at booking from final fare at trip completion.

EDUCATION

Bachelor of Technology – Computer Science and Engineering

Guru Gobind Singh Indraprastha University, Delhi

2022 - 2026
Delhi, India

- CGPA: 8.1
- **Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering, AI /ML

ADDITIONAL INFORMATION

- Ranked 2nd in overall contributions - Infosys Springboard Internship
- Selected as Scrum Master - Sprint planning and team coordination.