

Chandra Prakash Ojha

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github.com/cpojha | [linkedin.com/in/cpojha17](https://www.linkedin.com/in/cpojha17) | leetcode.com/u/cpojha
Backend Engineer | Distributed Systems | Real-Time Applications

EDUCATION

Oriental Institute of Science and Technology
B.Tech Computer Science and Engineering | CGPA: 7.81

Bhopal, India
Sept 2023 – Apr 2027

TECHNICAL SKILLS

Languages: C++ | TypeScript | JavaScript | Python | SQL
Backend: Node.js, Express.js, REST APIs, WebSockets, BullMQ, Redis, JWT, Jest
Frontend: React Native, React.js, Next.js 16
Databases: PostgreSQL, MongoDB, Supabase
Cloud & DevOps: AWS (Lambda, S3, SQS, CloudFront), GitHub Actions CI/CD, PM2
Payments: Stripe Connect (Webhooks, C2C Payouts), Firebase Auth / FCM
AI / ML: Google Gemini API, Replicate AI, Claude, Pinecone (Vector DB), Azure AutoML, RAG
Networking: TCP/IP, Routing, Switching, VLANs
Tools: Linux, Git, Docker, Postman, k6, Stripe CLI

WORK EXPERIENCE

Founding Engineer | BookitSocial Feb 2026 – Present

Social ARC Pty Ltd, Australia

- Built a **0-to-1 social event booking platform** as sole engineer; service-oriented Node.js/TypeScript backend with React Native mobile app, covering full-lifecycle event management — creation, payment, and QR-based check-in.
- Reduced API latency from **400+ms** to **32ms** via database optimization and Redis caching; validated system resilience up to **10,000+ concurrent requests** using **k6** for extensive smoke and load testing.
- Prevented **double-booking race conditions** using database-level locking and idempotent payment workflows; decoupled Stripe PaymentIntent creation from database transactions to eliminate lock contention under high concurrency.
- Integrated **Stripe Connect** with webhook-based recovery for reliable payment confirmation under network failures; automated payout engine with **60% attendance guard** protects platform revenue against fraudulent hosts.
- Ensured core booking engine stability by developing an extensive **Jest test suite** with **800+ unit and integration tests**, heavily utilizing mocking for third-party integrations (Stripe) and complex database transactions.

Backend Engineer Intern | Invoook Dec 2025 – Mar 2026

Thinking Sound Lab

- Identified and patched a **P0 privilege escalation vulnerability** in a PostgreSQL SECURITY DEFINER function; enforced `auth.uid()` validation and secure `search_path` configuration, closing an auth bypass exploitable by any authenticated user.
- Designed **snapshot-based template versioning** using PostgreSQL JSONB, guaranteeing data consistency under concurrent edits; UUID remapping on forks preserved relational graph integrity across all copied templates.
- Built **2 production AWS Lambda** document-processing pipelines supporting **10+ file types**; improved processing reliability and reduced manual overhead feeding a downstream vector embedding system.

Freelance Full-Stack Developer | RDS Beverage Jul 2025 – Oct 2025

AquaMum Inventory SaaS

- Launched **multi-tenant inventory system** with **80+ REST APIs** for GST-compliant invoicing and role-based access control; cut manual reconciliation time by **60%** via real-time WebSocket sync; achieved **95% test coverage** during production pilot.

PROJECTS

AutoQuill — *Autonomous AI Publishing SaaS* | Node.js | PostgreSQL | BullMQ | Redis | Gemini | Replicate AI

- Processed **8,000+ articles/day** via distributed BullMQ job queues across unlimited WordPress sites in **12 languages**; 3-attempt exponential backoff, per-job retry strategy, and 5,000-job failure audit log.
- Engineered **per-site circuit breakers** to isolate third-party API failures and maintain availability; BYOK dual-tier billing reduces per-article cost by **50%** with atomic credit accounting and auto-refund on failure.
- Implemented **RAG-powered content autopilot** using recent publish history as LLM context to prevent duplicate content; dual AI image pipeline with automatic fallback ensuring high availability for image generation at scale.

ACHIEVEMENTS & CERTIFICATIONS

Competitive Programming: 735 problems solved on LeetCode (227E/386M/122H) | Contest Rating **2,132 (Guardian)** | **Top 1.31%** globally

Microsoft Certified: Azure Data Scientist Associate (DP-100) — Jun 2025 | AzureML, AutoML, ML pipeline deployment

GDG on Campus President, OIST — Aug 2025–Present | Founded **1200+ member** community; TechSprint Hackathon 2025, **600+ participants**

Microsoft Learn Student Ambassador (Beta) — Jan 2025–Present | 10+ events, 500+ students across GitHub Copilot and Azure workshops

CCNA: Switching, Routing & Wireless Essentials — Apr 2025 | Introduction to Networks — Jan 2025