

# Adrin Paul

Greater Delhi Area | Email | LinkedIn | Portfolio | GitHub

## SUMMARY

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Full-stack backend engineer with **2+ years at CSIR** building distributed microservices and high-performance databases. Shipped production systems in Java/Spring Boot, Node.js/Express, PostgreSQL, and Redis. OSS contributor with 4 merged PRs across gRPC-Java, PromptKit (Microsoft), and Fluent UI. Expertise in query optimisation (240ms → 165ms average latency), Redis caching, and scalable architecture design.

## TECHNICAL SKILLS

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**Languages:** Java, JavaScript (Node.js), SQL, Python

**Frameworks:** Spring Boot, Express.js, React.js, Next.js

**Databases & Caching:** PostgreSQL (GIN/composite indexes, query profiling), Redis (Lua scripting, token-bucket rate limiting)

**Architecture:** Microservices, REST APIs, JWT Auth, HLS Streaming, Real-time Systems (Socket.IO), Concurrency

**Tools:** Docker, Git, FFmpeg, Postman

**UI:** Material UI, Joy UI, Tailwind CSS

**AI:** LLM Integration (OpenAI, DeepSeek), RAG, Prompt Engineering

## FEATURED PROJECTS

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**LinkedUp** | *Node.js, Spring Boot, Redis, PostgreSQL* | [github.com/themebro](https://github.com/themebro)

- Architected microservice backend with Node.js/Express gateway and Spring Boot services; secured via JWT authentication and service isolation.
- Built Redis Lua token-bucket rate limiter and PostgreSQL full-text search (GIN indexes + Redis caching), reducing DB reads by 40%.
- Implemented HLS streaming pipeline (FFmpeg, sprite thumbnails) and real-time Socket.IO notifications with Redis counters.

## OPEN SOURCE CONTRIBUTIONS

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**gRPC-Java** | [github.com/grpc/grpc-java](https://github.com/grpc/grpc-java)

- **Merged PR #12705:** Fixed critical race condition in channel lifecycle management under concurrent shutdown (Issue #12641).
- **Merged PR #12700:** Enhanced contributor documentation, reducing onboarding friction (Issue #12657).

**PromptKit (Microsoft)** | [github.com/microsoft/promptkit](https://github.com/microsoft/promptkit)

- **Merged PR:** Built session profiler template for monitoring performance metrics in OSS ecosystem.

**Microsoft Fluent UI** | [github.com/microsoft/fluentui](https://github.com/microsoft/fluentui)

- **Merged PR:** Resolved deserialization bug in react-draggable dialog package, enabling safe internal state mutations.

## EXPERIENCE

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**CSIR – Innovation Protection Unit (IPU)**

New Delhi, India

*Full Stack Developer*

*Jan 2024 – Present*

- Engineered scalable multi-user workflow platform with Node.js/Express APIs, PostgreSQL backend, and React.js frontend supporting concurrent operations.
- Reduced average query latency from 240ms to 165ms via composite indexing, query profiling, and eliminating N+1 anti-patterns; improved P95 latency by 30%.
- Designed RESTful API contracts (OpenAPI) and built reusable React components, reducing code duplication by 25%.

**CodeClause**

Delhi, India

*Web Development Intern*

*May 2023 – Jun 2023*

- Shipped web features; strengthened JavaScript, REST API, and component-driven development skills.

**Electronic Arts (EA)**

Noida, India

*Assistant Executive, Customer Success*

*Aug 2021 – Mar 2022*

- Debugged live platform issues with engineering teams; improved mean resolution time by 15%; gained exposure to large-scale systems reliability.

## EDUCATION

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**Noida Institute of Engineering & Technology**

Noida, India

*Bachelor of Technology (B.Tech), Mechanical Engineering*

*Aug 2017 – Aug 2021*

**CSIR – National Physical Laboratory**

Delhi, India

*Postgraduate Diploma, PMQC*

*Feb 2023 – Jan 2024*