

Prince Pal

Portfolio: princepaldev.engineer
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EDUCATION

- Guru Gobind Singh Indraprastha University** New Delhi, India
Bachelor of Technology - Computer Science & Engineering; GPA: 8.69 July 2023 - Present

SKILLS

- Languages:** Java, JavaScript, TypeScript
- Backend:** Spring Boot, Spring Security, Spring Cloud, NestJS, REST APIs
- Architecture:** Microservices, Eureka, RabbitMQ
- Databases:** PostgreSQL, MySQL, MongoDB, Redis
- Frontend:** HTML/CSS, React.js, Next.js, Tailwind CSS
- Cloud & Tools:** Docker, AWS, Git, GitHub Actions, Prometheus, Grafana, JUnit

EXPERIENCE

- AstroRaag** Remote
Software Engineer (Intern) July 2026 – Present
 - Workflow Automation:** Developed an event-driven email service in NestJS for a supply chain automation platform, delivering trigger-based notifications through a reusable workflow engine.
 - Centralized Configuration Management:** Built and deployed Java Spring Cloud Server, serving as the single source of truth for configuration across 10+ microservices with centralized versioning and environment-specific properties.
 - Backend Modernization:** Migrated a legacy Express.js backend to NestJS, redesigning the application into a modular architecture using dependency injection, improving maintainability and scalability.
- Tata Power DDL** New Delhi, India
Software Engineer (Intern) June 2026 – July 2026
 - Analytics Dashboard:** Built a production-ready analytics dashboard using Thymleaf to visualize and analyze 20+ years of electricity demand data with interactive drill-downs from yearly trends to daily 96-slot demand patterns.
 - Backend Engineering:** Designed and developed RESTful APIs using Java, Spring Boot, JPA, and PostgreSQL to power analytics workflows, data aggregation, and dashboard visualizations.
 - Authentication & Deployment:** Implemented a mocked Active Directory (AD) authentication flow for enterprise login integration and contributed to deploying the analytics platform for internal use by the Tata Power-DDL analytics team.
- Viben** Remote
Software Engineer (Intern) February 2025 – May 2025
 - Authentication & Backend Services:** Implemented secure backend services using Node.js, Express.js, TypeScript, and JWT authentication for user management and authorization.
 - ML Integration & Data Management:** Integrated an ML recommendation service into the backend and designed PostgreSQL-backed APIs for image uploads and personalized outfit recommendations serving 1,000+ beta users.
 - Deployment:** Containerized the application using Docker and deployed backend services on AWS, enabling reliable and scalable deployments.
- EduAbroad** New Delhi, India
Front End Engineer (Intern) March 2023 – June 2023
 - Website Modernization:** Modernized the company's flagship website using React.js, JavaScript, Tailwind CSS, and HTML/CSS, while delivering 20+ custom portfolio websites for students.
 - Performance Optimization:** Improved website performance through lazy loading, asset optimization, and bundle optimization, increasing the Google Lighthouse score from 75 to 90 and significantly improving page speed.

PROJECTS

- Upbot | GitHub:** Engineered a serverless deployment monitoring platform that continuously probes application endpoints to mitigate cold starts and ensure high availability, processing **50K+ health-check pings daily** across **100+ monitored services**. Built a full-stack dashboard for real-time service health monitoring.
- SocketDrop | GitHub | Live:** Built a hybrid **HTTP + WebSocket** file-sharing platform where HTTP handles uploads and WebSockets provide real-time room-wide notifications, enabling instant file distribution to **50 concurrent users** with UUID-based secure sharing.

HONORS AND AWARDS

- Secured AIR 56 in IPU CET among thousands of candidates
- Won 5 Hackathons, including Google Prompt Wars & Zynd.ai Hackathon

VOLUNTEER EXPERIENCE

- Event Organizer at Google Developers Group Delhi** Delhi, India
Conducted workshops and delivered workshops reaching over 1000 developers June 2025 - September 2025
- GirlScript Summer of Code** Remote
Reviewed and merged 200+ contributions from a team of 70+ developers May 2024 - August 2024