

AMAN PRATAP SINGH

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SUMMARY

Full-Stack Developer with a strong backend focus and 1+ year of experience designing and building scalable, high-performance web applications. Proficient in Node.js, Express.js, MySQL, MongoDB, and React.js, with expertise in RESTful API design, authentication, CI/CD pipelines, and performance optimization. Passionate about delivering efficient solutions and eager to contribute to innovative projects that solve real-world problems and drive business value.

TECHNICAL SKILLS

- Languages:** JavaScript (ES6+), TypeScript, Node.js, Java, SQL, HTML5, CSS3, C++, Golang
- Backend:** Express.js, RESTful APIs, Microservices, JWT, OAuth 2.0, Socket.io, BullMQ, Redis, Cron Jobs, Nginx
- Frontend:** React.js (Hooks, Context API), Redux, Tailwind CSS, Material UI, Bootstrap, Next.js
- Databases:** MySQL (Query Optimization, Indexing), MongoDB, Sequelize ORM, Mongoose, Firebase
- DevOps:** Git Version Control, GitHub Actions, Docker (Basic), Postman, Swagger API Documentation, AWS (EC2, S3), CI/CD
- Methodologies:** Agile Development (Scrum), Test-Driven Development, MVC Architecture

EXPERIENCE

Spirehub Softwares Pvt. Ltd

Jul 2024 – Present

Backend Developer (Full-time)

Noida, UP

- Technologies:** Node.js, Express.js, MySQL, Redis, JWT, OAuth 2.0, GitHub Actions, Docker, Agile (Scrum), REST APIs, Microservices, Load Balancing, Error Handling, Monitoring, Unit Testing, Performance Tuning, API Documentation
- Developed and maintained 15+ RESTful APIs using **Node.js**, **Express.js**, and **MySQL**, serving 500+ daily requests with 99.8% uptime, ensuring robust error handling, input validation, and API documentation using Swagger.
- Refined database queries by 73% through query plan analysis, query optimization, and targeted indexing in **MySQL**, reducing average query latency from 450ms to 120ms and improving system scalability.
- Engineered secure JWT authentication with role-based access control (RBAC) for 3 distinct user roles, leveraging **JWT**, **OAuth 2.0**, and **Redis**, enhancing security posture and reducing unauthorized access risks by 30%.
- Integrated **Redis** caching for high-frequency endpoints, decreasing database load by 40%, improving response times by 60%, and implementing cache invalidation strategies for data consistency.
- Collaborated in Agile sprints (Scrum) with cross-functional teams, contributing to sprint planning, story point estimation, code reviews, and daily stand-ups, delivering features 15% ahead of schedule and maintaining code quality standards.
- Established and maintained CI/CD pipelines using **Bitbucket**, **GitHub Actions**, and **Docker**, automating unit testing, code linting, build processes, and deployment to staging and production, reducing release times by 25%.

PROJECTS

Ribeez – Restaurant POS Web and Mobile Application

Mar 2025 – Jun 2025

- Architected a production-grade restaurant management system processing 500+ daily orders across 30+ locations with 99.9% system uptime.
- Engineered **OAuth 2.0** and **JWT** authentication system serving 5 distinct user roles, reducing unauthorized access incidents by 95%.
- Optimized **MySQL** queries through strategic indexing, reducing query execution time by 65% and improving performance for high-frequency operations.
- Orchestrated **BullMQ** queues processing 300+ asynchronous tasks/hour for order fulfillment and notifications.

Caribbean-will-registry – Will Management Platform

Dec 2024 – Mar 2025

- Scaled document management system to handle 200+ daily registrations with zero data loss over 12 months.
- Built real-time analytics dashboard serving 20+ metrics, reducing daily admin reporting time from 2 hours to 15 minutes.
- Automated 7 different report generations using **Cron** jobs, saving 40+ manual work hours weekly.
- Normalized database schema reduced storage requirements by 30% while improving query performance.

Spirestro – Multi-Tenant SaaS Platform for Restaurants

Aug 2024 – Present

- Designed multi-tenant architecture supporting isolated data for 50+ restaurant entities with shared infrastructure.
- Developed inventory management module reducing stock discrepancies by 90% through real-time sync.
- Implemented **BullMQ** queues handling 1,000+ daily background jobs with a failure rate under 1%.
- Created sales analytics tools increasing upsell opportunities by 25% through data visualization.
- Partnered with frontend teams to design efficient solutions, boosting production workflows and improving overall productivity by 20%.

EDUCATION

Bhagwan Parshuram Institute Of Technology

Dec 2020 – Jun 2024

Bachelor of Technology (CGPA: 8.2)

Delhi, India