

PANCHAM SINGH

Sr. Software Engineer

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PROFESSIONAL SUMMARY

9+ years Full-stack engineer delivering scalable, high-quality web and mobile software across React and Next.js frontends and Node.js/NestJS services. Proficient with GraphQL, PostgreSQL, and AWS (Lambda, EventBridge, S3), plus Docker and CI/CD. Committed to clean code, reliability, and partnering with teams to ship impact.

TECHNICAL SKILLS

Frontend: React, Next.js (Material-UI, Tailwind, Bootstrap), CSS, SCSS, HTML

Backend: Node.js, NestJS, GraphQL, Elasticsearch

Tools: Docker, CI/CD, Jenkins, Nginx, AWS Lambda, AWS EventBridge, AWS S3, CloudFront, AWS API Gateway, AWS Cognito, SQS, JIRA, Git, Sonar, Copilot

Databases: PostgreSQL, MongoDB, MySQL, DynamoDB

Library: Jest, Cypress, React-Testing-Library, WebSockets

Languages: TypeScript, Javascript

PROFESSIONAL EXPERIENCE (9+ YEARS)

Sr. Software Engineer | Oct 2021 - Present

CPP INDIA | Gurgaon, Haryana | Remote

- Refactored legacy modules with rigorous **code optimization**, improving platform performance by 45%.
- Drove adoption of **Next.js/React** modular patterns and **component reusability**, accelerating release frequency by 60%.
- Built **microservices** with NestJS (Node.js) and PostgreSQL, strengthening API contracts and maintainability.
- Engineered resilient **serverless pipelines** on AWS (CloudWatch, EventBridge, Lambda, S3) with **Dockerized** runtimes, sustaining 100% service uptime.
- Led standards and code reviews, enforcing linting and **clean code** to reduce defects by 80% and accelerate onboarding.
- Implemented circuit breakers and retry policies to stabilize services and cut MTTR to 15 minutes during incidents across all critical paths.

Technologies Used: React, Next.js, Redux, Node.js, NestJS, PostgreSQL, AWS CloudWatch, AWS EventBridge, AWS Lambda, AWS S3, Docker

Sr. Software Engineer | Jun 2020 - Oct 2021

Terasol Technologies | Noida | Remote

- Designed and delivered **RESTful APIs** in Node.js with versioning and validation, improving response times by 90%
- Built **React Native** interfaces with custom components and seamless event handling to boost user engagement by 50%
- Integrated **RTC** capabilities with secure auth and resilient error handling, increasing session stability by 85%
- Partnered with product and QA on prioritization and triage, shortening release cycles by 60% while maintaining quality.
- Quickly adapted to evolving tech stacks to meet changing requirements and timelines.
- Scaled API gateway to handle increased load while maintaining **99.95% uptime** during peak traffic, ensuring uninterrupted service for users across regions.

Technologies Used: Node.js, REST APIs, React Native, JavaScript, RTC, Git

Sr. Software Engineer | Sep 2019 - May 2020

Closetloop | Mohali

- Built and integrated **React/Redux** interfaces for responsive web applications aligned with design systems.
- Implemented **data visualizations** with charting libraries to surface KPIs, improving decision-making by 90%

- Developed **Node.js/MongoDB** REST services and optimized query patterns, cutting API latency by 75%
- Coordinated with UX and QA to streamline state management and component reuse, reducing UI defects by 50%

Technologies Used: *React, Redux, Node.js, MongoDB*

Software Engineer | Jul 2018 - Sep 2019

PielInfo Systems | Mohali

- Engineered a reusable **React UI library** for client/candidate portals.
- Created **RESTful services** for dynamic form generation, reducing manual configuration by 50%
- Applied **microservices** and **micro-frontend** patterns to enhance scalability and independent deployments

Technologies Used: *React, JavaScript, Node.js, REST APIs, Microservices, Micro-frontend*

Full Stack Developer | May 2017 - Jun 2018

YappApp India | Mohali

- Built **GraphQL** and REST services in Node.js and Java, improving data access patterns and throughput
- Developed **admin panels** and real-time chat with Socket.IO, supporting concurrency of users with robust presence.
- Delivered a React Native gaming chat app, optimizing navigation and network usage.
- Integrated new technologies into existing systems, increasing capability and overall performance.

Technologies Used: *Node.js, Java, GraphQL, REST APIs, React Native, Socket.IO*

Software Engineer | Nov 2016 - May 2017

Mindful (Applegos) | Mohali

- Developed **RESTful services** in Node.js and POS integrations with Java Jersey to support transactional flows.
- Built **Angular 4** frontends and optimized JS/CSS/images, reducing page load.
- Integrated **third-party APIs** to extend platform capabilities, elevating user experience

Technologies Used: *Node.js, Java (Jersey), Angular 4, REST APIs*

PROJECTS

OneApp Next.js Module Federation Migration | CPP INDIA

Migration of a legacy micro-frontend platform to Next.js Module Federation to enable independently deployable modules and faster releases across teams.

- Designed the **Module Federation** architecture in **Next.js** to decouple teams and enable independent deploys.
- Ported critical React surfaces into **federated modules** with shared libraries and isolated state.
- Implemented **CI/CD** and **Docker** pipelines for remote module builds and versioned publishing.
- Improved **release cadence** by 50% through modular delivery and better dependency management.

Event-Driven Batch Processing Scale-Up | CPP INDIA

Scalable, reliable batch data processing pipeline leveraging AWS serverless services to handle multi-million record workloads.

- Introduced **event-driven** orchestration with **AWS EventBridge** and **AWS Lambda** to distribute batch workloads.
- Optimized **AWS S3** data layout and parallelization, scaling throughput from 500K to 2,500K records.
- **CloudWatch** metrics and alarms to uphold 100% availability and rapid recovery.
- Streamlined deployments via **Docker** and **CI/CD**, improving reliability and repeatability.

Legacy Database Migration | CPP INDIA

Migrated Postgres database to DynamoDB successfully to support the legacy system subscriptions with new system

- Implemented Scheduled Migration with event driven like SQS for pushing data from service and consumed by AWS Lambda to AWS DynamoDB

EDUCATION

BCA (Bachelor of Computer Applications) | May 2015

Asian Institution | Patiala, PB, IN

ACHIEVEMENTS

- Scaled batch processing from 500K records to 2,500K records with event-driven architecture.
- Migrated OneApp micro-frontend platform to Next.js Module Federation flow successfully.
- C/C++, Championship | Modi College Patiala | Won | 35 Colleges | Punjab, India

INTERESTS

- Self-improvement
- Learning new technologies
- Reading books

COURSEWORK

- Developing Android Apps
- Diploma in Computer Applications
- Diploma in Computer SW/HW