CHIRAG SETHI

📞 8054077365 · ✉ chiragsethi50@gmail.com · 🔗 linkedin.com/in/chirag-sethi50

PROFESSIONAL SUMMARY

Full Stack Software Engineer with almost 2 years of experience developing scalable web applications using React.js, Next.js, Node.js, and NestJS. Proficient in RESTful API design, microservices, and server-side rendering (SSR). Strong understanding of software architectures and performance optimization across the full stack.

PROFESSIONAL SKILLS

- **Programming Languages:** JavaScript (ES6+), TypeScript, Java, HTML, CSS.
- **Frontend Development:** React.js, Next.js, Redux Toolkit, Redux Thunk, Material-UI, Responsive Web Design.
- **Backend Development:** NestJS, Node.js, Express.js, Sequelize, TypeORM, PostgreSQL, MongoDB, RabbitMQ, RESTful API Design, Authentication, Unit Testing (Jest), Microservices.
- **Tools & Technologies:** Docker, Git, GitHub, GitLab, Webpack, Vite, Agile.
- **Architectures & Principles:** Domain-Driven Design (DDD), BFF Pattern, SOLID Principles, Vertical Slice Architecture, Event-Driven Architecture, Test-Driven Development (TDD).
- **Core Competencies:** API Integration, Debugging, Code Review, Cross-functional Collaboration, Performance Optimization, Clean Code Practices.

EXPERIENCE

Software Development Engineer | *Zenmonk, Mohali* 　　　　　　　　　　　　　　　　　　　　*Jan 2024 - Present*
Selected Projects:

- **Scholarship Application Request Process**
  - Developed a full-stack application to automate student scholarship requests for FUNIBER universities, replacing manual workflows and reducing processing time by 60%.
  - Engineered authentication and session handling using `iron-session` for secure and persistent user management.
  - Implemented multilingual support with `next-intl` and optimized API usage with debounced autosave functionality.
  - Integrated Google Drive API using a strategy pattern to handle document uploads across multiple environments.
  - Handled client-side validation workflows using `react-hook-form` and `zod`, improving form reliability and data integrity.

- **Language Tests Management**
  - Contributed to the backend microservice design for English language proficiency tracking using NestJS and PostgreSQL.
  - Implemented idempotent message processing with RabbitMQ for reliable event-driven communication between services.
  - Built a reusable `date-range picker` component to enable efficient and dynamic student data filtering.
  - Improved Lighthouse performance scores to 94 by optimizing rendering and caching strategies.

- **Attendance Control Management**
  - Enhanced an attendance management system for FUNIBER universities built to automate student tracking.
  - Migrated state management from local state/context API to Redux Toolkit, improving app performance by 30%.
  - Designed inactive-student detection logic by aggregating cross-service API data, enabling automatic attendance blocking.
  - Implemented infinite scroll with optimized pagination for handling large student datasets efficiently.
  - Delivered attendance unmarking functionality, improving usability and administrative control.

EDUCATION

Chandigarh College of Engineering and Technology (CCET) | *Chandigarh* 　　　　　　　　　　　*2020 - 2024*

Bachelor of Engineering (B.E.), Computer Science and Engineering | *CGPA: 7.83/10*

Relevant Coursework: Data Structures and Algorithms, OOPS, Web Technologies, Databases, Operating Systems, Computer Networks

ADDITIONAL INFORMATION

- **Positions of Responsibility**
  - **Sports Head** | *CCET* 　　　　　　　　　　　　　　　　　　　　　　　　　　*Aug 2022 - Dec 2023*
    * Led the Sports Committee, organizing 10+ sporting events in college campus with 200+ participants, ensuring event logistics and team coordination.
    * Managed sports representation at inter-college level and coordinated with administration for event execution.

- **Recognitions & Awards**
  - **Second Prize – International Hackathon, Zenmonk (2024):** Designed and developed a scalable Interview Management System architecture using SOLID and Domain-Driven Design (DDD) principles.

- **Languages:** English (Fluent), Hindi (Fluent)

- **Certifications & Training:** Software Architect