

# Bipin Kumar

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## TECHNICAL SKILLS

- **Programming Languages:** C++, Java, JavaScript, SQL, Node.js
- **Frameworks & Libraries:** Spring Boot, React.js, Bootstrap, SyncFusion, Git, TestNG, Mockito
- **Databases & Storage:** MongoDB, MySQL, Redis, Apache Kafka
- **DevOps Tools:** JIRA, GitHub, Fiddler, Visual Studio Code, IntelliJ IDEA

## EXPERIENCE

- **Software Development Engineer (SDE)** Jul 2024 – Present  
*Planful, Host Analytics — Hyderabad, India* *Hybrid*
  - Architected an **Excel-like virtualized grid module** in **React.js** with keyboard-driven editing, undo-redo functionality, optimizing rendering with **React.memo** and **react-window**, achieving ~ 40% performance improvement for large datasets.
  - Modernized frontend by upgrading **Node.js (v12 → v22)** and refactoring deprecated **React classes** and **NPM packages**, improving build performance, maintainability, and security.
  - Designed and implemented **custom and conditional formatting** in the reporting module via **Spring Boot APIs**, enabling 10K+ users to quickly identify key insights and improving report readability.
  - Implemented a **progress-tracking mechanism** for data save operations using **Java async support and event-driven architecture**, enabling real-time visualization of the percentage of data persisted to the database and signaling completion without blocking API operations, improving responsiveness and efficiency.
- **Software Development Engineer Intern (SDE Intern)** Jan 2024 – Jun 2024  
*Planful, Host Analytics — Hyderabad, India* *Hybrid*
  - Enhanced frontend performance and usability by implementing **Figma-based UI components**, integrating **SyncFusion elements**, and building custom components for efficient rendering and smoother user interactions.
  - Upgraded **MongoDB data access layer (v3.10 → v4.12)** by replacing deprecated classes with driver-supported objects (**BasicDBObject, Bson, MongoClient**), improving compatibility, maintainability, and query performance.
  - Developed the **File Cabinet module** in Java (**Spring Boot**) with **MongoDB**, extending support from single to bulk operations (like/unlike, delete, move) for 5K+ users, enhancing API scalability and throughput.

## PROJECTS

- **TaskFlow Backend - Domain-Driven Task Management API**  
*Spring Boot, Java, PostgreSQL, Spring Data JPA, REST API*
  - Developed comprehensive **RESTful CRUD API** managing tasks and task lists with multi-level priority system, dual status tracking (**Open/Closed**), due date scheduling, and **hierarchical task organization**
  - Designed PostgreSQL schema with **UUID primary keys, created/updated timestamps** for full change tracking, and **JPA relationships** enabling efficient task-list hierarchy
  - Constructed enterprise-grade backend infrastructure incorporating **comprehensive input validation, standardized REST conventions, global exception handling**, and API documentation-ready endpoints for seamless frontend integration
- **Hostel Attendance Management System** Jun 2023 – Jul 2023  
*React.js, Node.js, Express.js, MongoDB, Bootstrap*
  - Developed comprehensive **full-stack web application** enabling admin portal for efficient student attendance management by room allocation.
  - Designed interactive **dashboard with graphical representations and reports** delivering real-time attendance analytics for hostel administration.
  - Implemented robust **JWT-based role-based access control** securing data for admin and student roles.

## EDUCATION

- **Birla Institute of Technology** Ranchi, Jharkhand  
*Bachelor of Technology (B.Tech) in Information Technology — GPA: 8.67* 2020 – 2024
- **Delhi Public School** Bokaro, Jharkhand  
*Senior Secondary (12th), PCM — Percentage: 94%* 2019 – 2020

## ACHIEVEMENTS

- Top **6.91%** LeetCode (peak **1839** rating), 1000+ DSA problems solved across LeetCode, GeeksforGeeks, Codeforces.
- Awarded **100% scholarship** during 3rd year B.Tech for outstanding academic performance.

## RELEVANT COURSEWORK

- Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Programming