

Bipin Kumar

+91-9508832700 | bipinkumar200106@gmail.com | LinkedIn | Portfolio | GitHub | LeetCode

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

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| Software Development Engineer (SDE) | Jul 2024 – Present |
| • <i>Planful, Host Analytics — Hyderabad, India</i> | <i>Hybrid</i> |
| ○ 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 |
| • <i>Planful, Host Analytics — Hyderabad, India</i> | <i>Hybrid</i> |
| ○ 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 , MongoCursor), 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

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|---|---------------------|
| TaskFlow Backend - Domain-Driven Task Management API | |
| • <i>Spring Boot, Java, PostgreSQL, Spring Data JPA, REST API</i> | |
| ○ 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 |
| • <i>React.js, Node.js, Express.js, MongoDB, Bootstrap</i> | |
| ○ 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

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

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