

# Manoj Kumar

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## TECHNICAL SKILLS

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- **Languages:** Java, Python, JavaScript
- **Databases:** MySQL, MS SQL, MongoDB (NoSQL)
- **Frameworks & Libraries:** Spring/Spring Boot, Hibernate, JDBC, JUnit, React.js, Node, HTML, CSS
- **Tools & Platform:** Git, Maven, NPM, JIRA, REST APIs, Docker, Kafka, AWS services, Linux
- **Familiar Technology:** Django, JSON, PHP, C#.NET, TypeScript, Firebase, Agile, Scrum, jQuery, Android

## PROFESSIONAL EXPERIENCE

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### Software Development Engineer (Back-End) | FIS Global,

Pune, Maharashtra | Sep 2021 - Present

#### FIS Loan servicing backend redesign of legacy LANSa code

- Collaborated with 12 developers and 2 cross functional teams to create RESTful APIs for modules including collateral, facility, and loan in Java, Spring and MS SQL to transform the monolithic code to microservices architecture.
- Utilized azure DevOps CI/CD for efficient code versioning and consistent code deployment.
- Achieved 95% code coverage by writing unit and integration tests using JUnit and Mockito libraries in Java.
- Scaled the back-end horizontally to 5 AWS EC2 instances and used NGINX for load balancing, resulting in the ability to handle 360,000 requests per minute with low latency (<20 ms) and error rate (0.1%).

### Associate Software Engineer (Full-stack) | Aapna Infotech,

Gurgaon, Haryana | May 2020 - Sep 2021

#### Customizable landing banner application for advertisement and campaigns

- Designed and built an application for clients to create banners, view ratings, searching and sorting by date or rating using Java, Spring, React, Express and MySQL.
- Improved page load times by 30% (from 6 seconds to 4.2 seconds) through the implementation of AWS S3 for image processing and efficient staging using Docker containers on AWS.
- Increased annual revenue by 4.3% with generating 1500+ new clients in within 3 months of release.

### Software Engineer | AlgoComputing Softwares,

Gurgaon, Haryana | Feb 2019 - April 2020

#### Single page Invoice management system web application

- Led a team of 3 members in designing data models, schema, and REST APIs to enable frontend integration to backend.
- Developed a Python utility for converting invoices to PDF format and sending them in bulk via email.
- Reduced query times to database from **6,000 ms** to **12 ms** by using aggregator functions and indexing foreign keys.
- Boosted B2B sales on our platform by 18% through 60% faster invoice processing, saving 2 hours/day.

## PROJECTS

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- **Bookhive App:-** Built a scalable online library platform with GitHub OAuth2.0 authorization, enabling users to login, track books, and enhance their reading habits. Tech stack: *Java, Spring Boot, OAuth, HTML, CSS, Cassandra*
- **Travel Map web app:-** Created an interactive 3D map web application integrating Mapbox APIs, allowing users to explore and mark travel destinations. Tech stack: *Node.js, React.js, Express.js, MongoDB (MERN).*

## AWARDS, RESPONSIBILITIES & INTERESTS

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- Among top 100 finalists at FIS, InnovateIN48 global programming competition. (2021/2022).
- Received SPOT award at FIS for implementing Kafka messaging in commercial loan servicing project.
- Responsible for organizing brainstorming and knowledge sharing events for new team members.
- LeetCode profile: [leetcode.com/makumar](https://leetcode.com/makumar)
- Interests: Football, Travel, Data Science, Planetariums

## ADDITIONAL COURSES AND TRAINING

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### Data Structures, Algorithms and System Design from Scaler Academy | [Scaler@manoj](mailto:Scaler@manoj) | May 2022 - Dec 2023

- Solved 350+ DSA problems, strong understanding of Design patterns, Multi-threading, Low-Level & High-Level Design.

## EDUCATION

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### Netaji Subhas University of Technology West Campus,

New Delhi | Aug 2011 - May 2015

- Bachelor of Technology in Information Technology
- *Relevant Coursework:* Object Oriented Programming (OOPS), Data structures, Algorithm Design, Statistics & Probability, Computer Architecture & Networking, RDBMS, Operating System