

# SANDEEP AHIRWAR

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## Profile summary

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Results-driven Software Engineer with 1.5+ years in building high-performance applications, specializing in Java, Python, and Spring Boot. Strong expertise in database management (MySQL, MongoDB) and crafting scalable, impactful solutions.

## Education

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- **NIT BHOPAL** July 2019 - April 2023  
*Bachelor of Technology in Electronics and Communication Engineering* MP, India

## Experience

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- **Software Engineer** July 2023 - Present  
*APT Portfolio (HFT)* Delhi, India
  - Architected a No-Code UI builder for a SaaS platform, enabling users to create and import interfaces from Figma and Adobe XD. Utilized a **Java backend** to reduce development time by **80%**.
  - Utilized **Redis** for data caching, achieving significant latency reduction and improved response times for frequently accessed data.
  - Architected and implemented a scalable **real-time log viewer** application with LDAP authentication, advanced filtering, infinite scrolling for 10GB logs, and **real-time streaming for 100+ users**. Leveraged React, Python, **WebSocket**, Celery, and Redis to deliver a robust solution.
  - Implemented WebSocket for live log updates, using Django Channels for **real-time communication**.
  - Applied various concepts and technologies such as state management (Bloc and Providers), software design patterns, **SOLID principles**, **React**, JSON data manipulation, **REST APIs**, MongoDB, MySQL and Docker to streamline application development, improve system integration, and enhance performance through testing.
  - Engineered automation solutions using Ansible, Python, and Bash, reducing manual intervention in production by 30%. **Automated CI/CD pipelines**, improving deployment speed by 40% and system reliability by 35%.
- **Software Engineer intern** January 2023 - July 2023  
*APT Portfolio (HFT)* Delhi, India
  - Managed technical responsibilities for troubleshooting, error resolution, and log collection across all trades, ensuring 99.9% operational uptime and a **20% reduction in issue resolution time**, contributing to smoother and more efficient trading operations.
  - Conducted comprehensive End-to-End testing of implemented functionalities using Junits and developed API and UI automation scripts for Jenkins CI/CD pipelines, resulting in **40% faster software releases** and 30% fewer bugs.

## Technical Skills

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- **Programming Languages:** Python, C++, Java, Bash, JavaScript
- **Technologies & Tools:** Git, Linux, Ansible, Apache Airflow, Bitbucket, Jenkins, AWS, Elasticsearch, DynamoDB
- **Database Management:** MySQL, MongoDB
- **Frameworks & Libraries:** Node.js, React.js, Express.js, Django, Springboot
- **Containerization & Orchestration:** Docker, Kubernetes
- **Core Competency:** API Development, Containerization, Communicator, Analytical
- **Concept:** Data Structures & Algorithms, Operating Systems, DBMS, Agile Methods, OS, CN

## Research Work

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- **Drowsiness Detection for Virtual Learning**  
*Dr. A. Subbarao, Assistant Professor at NIT Bhopal*
  - Published **research paper** on a Python-based real-time drowsiness detection system.
  - Developed a Python-based real-time student drowsiness detection system with 90% accuracy.
  - Enabled prompt educator interventions via notifications, boosting student engagement by 35%.

## Projects

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- **Cryptocurrency Tracker App**  
*Dr. A. Subbarao, Assistant Professor at NIT Bhopal*
  - Built a high-performance cryptocurrency tracker app using React, Material UI, and Chart.js, displaying real-time data for 100+ cryptocurrencies.
  - Integrated CoinGecko API and **Context API** for efficient state management and accurate data retrieval, achieving over 90% data accuracy.

## Scholastic Achievements/Leadership

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- **Competitive Programming Platforms:** Solved **1000+** on different coding platforms: LEETCODE, GeeksforGeeks.
- **Google Coding Competitions:** Participated in Google KickStart 2022.
- **Rotaract Club MANIT:** Worked as a web Developer for the club.
- **JNVST EXAM:** Selected in JNVST exam of top 80 students out of approx 16000 candidates.