

# Arya Singh

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## EDUCATION

### Bachelor of Technology - Electronics and Telecommunication

Madhav Institute of Technology & Science • Gwalior, Madhya Pradesh • 2024 • 8.32

### Higher Secondary School Certificate - Physics, Chemistry and Maths

GVN- The Global School • Bhopal, Madhya Pradesh • 2020 • CBSE - 87%

### Secondary School Certificate

Carmel Convent Senior Secondary School, BHEL • Bhopal, Madhya Pradesh • 2018 • CBSE - 93%

## WORK EXPERIENCE

### Application Engineer

Newgen Software

January 2024 -October 2025

- Developed and enhanced enterprise-grade BPM/ECM applications on Newgen iBPS using Core Java, JavaScript, SQL and workflow automation technologies.
- Built and optimized backend modules using OOP principles, Java design patterns and clean coding practices to improve maintainability, scalability and performance.
- Integrated third-party and internal systems with iBPS using REST and SOAP APIs, applying secure authentication, payload validation and exception handling mechanisms.
- Developed reusable utility/helper classes, custom algorithms and workflow components for large BFSI clients including SNB (Saudi National Bank), Canara Bank and Bank of Baroda.
- Designed and implemented complex business workflows and decision rules using BRMS, enabling rule-driven automation and reducing manual processing for high volume BFSI clients.
- Conducted performance tuning by refactoring Java modules, reducing database latency, and rewriting heavy SQL queries to improve execution time.

### UI/UX Developer Intern

FixPoint

May 2023 -July 2023

- Designed and iterated captivating layouts and wireframes for the website UI using Figma, resulting in a 20% increase in user engagement and a 15% decrease in bounce rate.
- Spearheaded the revamp of blog and support web pages, leading to a 30% improvement in user satisfaction and a 25% rise in the average time spent on the pages.
- Collaborated with developers on A/B testing, achieving significant improvements in website performance and user experience, resulting in a remarkable 12% increase in overall website usability.

## PROJECTS

### Density-Based Traffic Control System

October 2022 - December 2022

- Collaboratively developed a Density-Based Traffic Control System prototype, showcasing potential 25% reduction in commuter waiting time intervals.
- Successfully simulated real-world traffic density measurements at a 4-way road junction using IR sensors.
- Configured Arduino micro-controller to code & interpret data from IR sensors and control traffic signal transitions.

### Tic Tac Toe

September 2022 - October 2022

- Developed Python-based 3x3 Tic Tac Toe algorithm, autonomously evaluating states and selecting optimal moves.
- Used Visual Studio Code for coding, then deployed on GitHub, demonstrating modern development and version control.
- Implemented user input to enable player interaction for seamless move selection and enhance the gaming experience.

## SKILLS

Technical Skills: C++, SQL, HTML, CSS, JavaScript, Java, Python

Soft Skills: Problem Solving, Teamwork, Critical Thinking, Effective Communication

Framework & Technologies: Spring Boot, Spring Core, Restful APIs, SOAP Webservices, Swagger, SonarQube, JUnit, Mockito