

Shashwat Tiwari

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Current Address : NITTTR Campus in front of Science Center, Bhopal

Introduction

Pivotal Achievements:

Experienced in developing robust, scalable solutions for the **education and training sector**, with a proven track record of delivering software that streamlines academic, apprenticeship, and institutional workflows. Skilled in designing and implementing end-to-end software solutions using **Java (JSP/Servlet, Spring Boot/Cloud), Angular and NodeJS** for modern web applications. Proficient in **Agile methodologies, Cloud & DevOps practices (AWS, Git, Jenkins, Linux)**, and database management systems including **MySQL, Oracle, PostgreSQL, and MS SQL**.

Hands-on experience in **API development (OpenAPI), user authentication and authorization** using **LDAP/Active Directory, OAuth 2.0, and SAML**(Security Assertion Markup Language), and integration of **AI/ML tools** such as **scikit-learn and OpenAI APIs** to support digital learning and automation initiatives. Skilled in generating dynamic reports and certificates using **iText**, creating adaptive and responsive **UI/UX for academic dashboards**, and building **Excel/CSV-based data upload and processing modules** for institutional needs.

Successfully optimized application performance, enhanced deployment pipelines, and improved system reliability—contributing to **faster delivery of academic services, streamlined administration, and measurable impact on student and faculty engagement**.

Professional Passion:

- Committed to delivering innovative, reliable, and impactful software solutions that empower institutions and learners.
- Driven to continuously enhance expertise in the Software Development Process (SDP), ensuring alignment with evolving technologies, standards, and compliance requirements.
- Motivated by dynamic and challenging environments, with a strong focus on problem-solving, innovation, and client-centric results.

Proficiency:

- Solid expertise in full-stack development, spanning both front-end and back-end technologies.
- Strong analytical, communication, and problem-solving abilities, enabling effective collaboration with cross-functional teams.
- Proven track record of ensuring on-time, high-quality project delivery while adhering to best practices, industry standards, and organizational goals.

Professional Experience Summary (1.5+ Years)

Software Developer Intern (09-October-2023 to 05-April-2024)

Roles & Responsibilities:

1. **Frontend Development** – Designed and developed responsive, cross-browser compatible UI using **HTML, CSS, JavaScript, Bootstrap, and Angular**, following **W3C standards**.
 2. **Backend Development** – Built and maintained server-side applications with **Java (Spring Boot, Jakarta EE)**, implementing **RESTful APIs** and **Microservices** to handle complex business logic.
 3. **Database Management** – Designed schemas, queries, stored procedures, and functions in **MySQL, PostgreSQL, MS SQL, and Oracle**. Integrated using **JDBC and JPA/Hibernate**.
 4. **Deployment** – Managed deployments on **AWS Cloud** and **Apache Tomcat**
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Software Projects (Highlights)

1. POC (Program Organization Cell) Certificate Generation

Role: Java Full Stack Developer (Intern)

Team Size: 2

Duration: March 2023 – June 2023

Technologies: JSP, Servlet, MySQL, Tomcat Server, Micro Services

2. Monthly and Yearly Report Submission Module

Role: Java Full Stack Developer (Intern)

Team Size: 4

Duration: June 2023 – November 2024

Technologies: JSP, Servlet, MySQL, Tomcat Server, Micro Services

3. NITTTR POC Calendar Module

Role : Java Full Stack Developer (Intern)

Team Size : 1

Duration : October - 2025 to December - 2025

OS : Windows 11 Pro

Technologies : JSP,Servlet,MySQL,Tomcat Server,Micro Services

Roles & Responsibilities:

- 1. Frontend Development:** Designed responsive dashboards and UI components using HTML, CSS, and Angular (v20), creating adaptive layouts for multiple devices.
 - 2. Backend Development:** Developed Java micro services with Spring Boot 3.3, integrated with Node.js middleware, ensuring secure API communication.
 - 3. Database Management:** Managed and optimized MySQL databases, applied normalization, indexing, and transaction handling to maintain high data integrity.
 - 4. Deployment & DevOps:** Automated build and deployment cycles on AWS using CI/CD pipelines, with version control on GitHub/GitLab.
 - 5. Data Analysis & Visualization:** Built reporting modules and dashboards for real-time monitoring of user activity and system data.
 - 6. Security & Performance Optimization:** Applied JWT authentication, role-based access control, HTTPS, and OWASP best practices. Optimized throughput using caching and asynchronous processing.
 - 7. Troubleshooting & Debugging:** Performed unit, integration, and system testing; implemented logging with SLF4J/Logback to ensure minimal downtime.
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Software Projects (Highlights)

1.(UMS)User Management System

Role : Java Full Stack Developer
Team Size : 1
Duration : December - 2025 to March - 2025
OS : Windows 11 Pro
Technologies : Angular-20,NodeJS 20, Spring Boot 3.3,Hibernate, MySql,Micro Services

2. NITTTR Hostel Booking Portal

Role : Java Full Stack Developer
Team Size : 5
Duration : November - 2025 to June - 2025
OS : Windows 11 Pro
Technologies : JSP,Servlet,MySql,Tomcat Server,Micro Services

3. Apprentice Certificate Generation Portal

Role : Java Full Stack Developer
Team Size : 2
Duration : October-2025 to May 2025
OS : Windows 11 Pro
Technologies : JSP,Servlet,MySql,Tomcat Server,Micro Services

4. Chat bot AI Assistance

Role : Java Full Stack Developer
Team Size : 2
Duration : August-2025 to September - 2025
OS : Windows 11 Pro
Technologies : JSP,Servlet,MySql,Tomcat Server,Micro Services

Roles & Responsibilities:

1. **Payment Gateway Integration:** Implemented secure API-based payment processing, handling transactions, callbacks, and reconciliation with third-party gateways.
 2. **Backend Development:** Developed and tested Java micro services to process payment requests, update transaction status, and log payment history.
 3. **Database Management:** Designed and optimized MySQL tables for payment transactions, ensuring ACID compliance and data consistency.
 4. **Testing & Debugging:** Conducted unit, integration, and end-to-end testing for payment flows; identified and resolved API errors and transaction failures.
 5. **Security Implementation:** Integrated SSL/HTTPS, encrypted sensitive data, and applied secure coding practices to protect financial data.
 6. **Documentation & Reporting:** Prepared technical documentation and logs for payment workflows, error handling, and testing results.
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Software Projects (Highlights)

1. M.Tech (PG) Admission Portal

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|---------------------|--|
| Role | : Java Full Stack Developer |
| Team Size | : 2 |
| Duration | : October - 2025 to January - 2025 |
| OS | : Windows 11 Pro |
| Technologies | : JSP,Servlet,MySQL,Tomcat Server,Micro Services |

2. E-Prashikshan 2.0 (Learning Management System)

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|---------------------|---|
| Role | : Java Full Stack Developer |
| Team Size | : 5 |
| Duration | : December - 2025 to Present |
| OS | : Windows 11 Pro |
| Technologies | : Angular 20,React,Node JS,Express,MongoDB, Micro Services, AWS |

3. E-Prashikshan 2.0 (LMS) Mobile Application

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|---------------------|---|
| Role | : Java Full Stack Developer |
| Team Size | : 5 |
| Duration | : December - 2025 to Present |
| OS | : Windows 11 Pro |
| Technologies | : Android Studio,Flutter,MySQLMicroservices,Playstore |

4. POC Payment Gateway Integration(NTT Data) and Testing

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|---------------------|--|
| Role | : Java Full Stack Developer |
| Team Size | : 2 |
| Duration | : November - 2025 to Present |
| OS | : Windows 11 Pro |
| Technologies | : JSP,Servlet,MySQL,Tomcat Server,Micro Services |

Educational Qualification

BACHELORS OF TECHNOLOGY [B.Tech] IN COMPUTER SCIENCE ENGINEERING(C.S.E)

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|------------|---|
| Duration | : 2020 – 2024 |
| College | : Bansal College of Engineering, Bhopal |
| University | : Rajiv Gandhi Prodyogiki Vishwavidyalaya, Bhopal |
| Marks | : 74.2 % |

HIGHER SENIOR SECONDARY SCHOOL, CERTIFICATE EXAMINATION, XII STANDARD

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|--------|------------------------------------|
| Year | : 2019 |
| School | : C.L.Arya Science Hr. Sec. School |
| Board | : MP Board |
| Marks | : 56% |

SECONDARY SCHOOL EXAMINATION, X STANDARD

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|--------|------------------------------------|
| Year | : 2018 |
| School | : C.L.Arya Science Hr. Sec. School |
| Board | : MP Board |
| Marks | : 55% |

Awards / Achievements / Certificates

- Government Apprenticeship Certification with ABC Creditization
- IOT (Internet of Things) Application Development
- Web Application Development
- Java Full Stack Web Development using Java Technologies and MySql
- Rajbhasha Samvad Participation Certificate
- Core Java Certification

Seminar & Workshops

↳ Raj Bhasha Samvad 2025

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|---------------------|--|
| Location | : National Institute of Technical Teacher Tranning and Research (NITTTR) ,Bhopal |
| Organized by | : NITTTR,Bhopal |
| Date | : Aug 21, 2025 |

↳ Cyber Security Awareness

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|---------------------|--|
| Location | : National Institute of Technical Teacher Tranning and Research (NITTTR) ,Bhopal |
| Organized by | : Cyber Cell, Bhopal |
| Date | : December 17, 2024 |

Technical Skills & Tools

Skills:

Programming Languages: JAVA

RDBMS: Mysql Server 8.0, MS SQL-Server 2012, Oracle 10, postgresql

Active Directory: Windows Active Directory (LDAP)

Frontend Technology & Framework: Angular(18,19,20),HTML, XML, JavaScript, JSP, Servlet, JSON, CSS,

Backend Technology & Framework: Hibernate 4.4, Spring Boot, Security, JPA, JDBC, NODE JS

Web Service: Restful Service, Micro Services

Web Server: Apache Tomcat (9,10), JBOSS EAP (6, 7)

Version Control: GIT, JIRA,

Cloud: AWS (EC2, S3, Lambda)

Methodologies: Agile (Scrum), TDD, CI/CD

Area of Interest/Learning: Generative AI, Docker, Kubernetes.

Soft Skills: Problem Solving, Curiosity, Team Player, Adaptability.

Tools :

IDE Tools: Eclipse , Visual Studio Code, Android Studio, Arduino Uno, Apache Netbeans, Flutter

Operating Systems: Linux(Ubuntu 16, Fedora 9) , Windows OS

DevOps Tools: Jenkins, Git, Maven, Gradle

Testing /Other Tools: JUnit, Postman, Maven

Personal Information

Nationality : Indian

Hobby : Reading Books, Meditation

Strength : Adaptability, Grasping Power and Result Orientation

Language known : Hindi/English

Declaration

I hereby declare that all the information is true to the best of my knowledge.

Place: Bhopal

Shashwat Tiwari