

## Shashwat Tiwari

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

### *Introduction*

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#### *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)*

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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**

**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)**

**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**

**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**

**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***

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

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**

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

### **SECONDARY SCHOOL EXAMINATION, X STANDARD**

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

## ***Awards / Achievements / Certificates***

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- 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***

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### **Raj Bhasha Samvad 2025**

<b>Location</b>	: National Institute of Technical Teacher Training and Research (NITTTR), Bhopal
<b>Organized by</b>	: NITTTR, Bhopal
<b>Date</b>	: Aug 21, 2025

### **Cyber Security Awareness**

<b>Location</b>	: National Institute of Technical Teacher Training and Research (NITTTR), Bhopal
<b>Organized by</b>	: Cyber Cell, Bhopal
<b>Date</b>	: December 17, 2024

## Technical Skills & Tools

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### 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 & Frameworks:** 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

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Nationality	: Indian
Hobby	: Reading Books, Meditation
Strength	: Adaptability, Grasping Power and Result Orientation
Language known	: Hindi/English

## Declaration

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

**Place:** Bhopal

**Shashwat Tiwari**