

Jay Shah

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Aspiring Java Developer with a strong foundation in backend engineering, RESTful web services, and platform modernisation. Passionate about innovation, continuous learning, and contributing to a responsible and collaborative team culture.

EXPERIENCE

ThrivePix LLC (Remote) Software Engineer – Backend (Java)

June 2021 - July 2023

- Designed and built backend microservices using Java and Spring Boot; optimised data access with Hibernate, improving system performance by 25%.
- Led CI/CD improvements via Jenkins and GitHub Actions; reduced deployment time by 30%.
- Developed and executed over 150+ unit/integration tests using JUnit, Mockito, and Postman for REST APIs.
- Collaborated cross-functionally with Product, QA, and DevOps in an Agile/Scrum environment.
- Oversaw technology management for backend services, ensuring system uptime and deployment efficiency

Student Manager, Roesch Library, University of Dayton

April 2024- Current

- Provided technical and printer support to 200+ students and faculty across 68 departments.
- Assisted with system troubleshooting, debugging, and user experience enhancement across platforms.

ACADEMIC PROJECTS

E Commerce Application

[Link](#)

- Developed a booking platform using Java, Spring Boot, and Kafka for real-time inventory and interactions.
- Implemented scalable microservices; containerised using Docker and orchestrated with Kubernetes clusters.
- Used RestAssured and Postman to test API endpoints for login, cart, and checkout. Integrated test results into a CI pipeline using GitHub Actions.

Train Booking System

- Designed a microservices architecture with Java, Spring Boot, Kafka, and Rabbitmq for real-time operations; integrated Keycloak for secure authentication and authorisation.
- Identified and mitigated technology risks during rollout, implementing fallback mechanisms and monitoring tools.

AI-Powered Fitness Application

[Link](#)

- Built a Spring Boot-based AI Fitness App with three microservices: User, Activity, and AI, enabling modular development and scalability.
- Integrated Keycloak for authentication and RabbitMQ for seamless inter-service communication in a secure, asynchronous environment.
- Integrated Gemini API to provide AI-driven food and workout recommendations tailored to user activity.

OPEN-SOURCE CONTRIBUTIONS

JAVA PATHFINDER:

[Link](#)

- Enhanced regex pattern matching in matcher.java (JPCORE); improved performance and memory management.
- Implemented Behaviour-Driven Development (BDD) testing.

JENKINS TEKTON CLIENT PLUGIN:

[Link](#)

- Refactored code for modularity and added unit tests for cross-platform support.

TECHNICAL SKILLS

Programming:	Java, C/C++, Python
Machine Learning:	Pandas, NumPy, TensorFlow
Databases / Cloud:	SQL, PostgreSQL, MongoDB, SQL Server, MySQL, H2, AWS, Azure, GCP
Tools / DevOps / Testing:	Jenkins, Applitools, Playwright, GitHub, Postman, JUnit, Selenium, JUnit, TestNG, Postman
Other Skills:	REST APIS, Microservices Architecture, JPA, ORM, Spring Annotations, Lombok
Frameworks:	Spring Boot, Django, Flask, Node.js

EDUCATION

Master of Science in Computer Science| University of Dayton, Ohio, USA

May 2025

B.E. in Electronics and Communications| Government Engineering College, Gandhinagar, India

April 2021

AWARDS/CERTIFICATIONS

2nd Prize – Smart India Hackathon 2020: Developed a Women Safety Android App, triggering emergency contacts via a shake/volume button.

JUnit & Mockito Testing for Java Developers – Udemy, 2025

Oracle Cloud Infrastructure – 2025 Foundations Associate