

Khushi Talaviya

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EDUCATION

New Jersey Institute of Technology

Master of Science in Computer Science

May 2026

Newark, NJ

Narsee Monjee Institute of Management Studies

Bachelor of Engineering in Computer Science

May 2024

Shirpur, India

SKILLS

Programming Languages: JJava, Python, PHP, TypeScript, JavaScript, SQL

FrameWorks: Spring Boot, Spring MVC, Maven, Hibernate, JPA, AngularJS, React, Node.js, Bootstrap, Tailwind CSS

Tools: IntelliJ IDEA, VS Code, Git, GitHub, AWS, Postman, Figma, Tableau, Google Analytics

Tech Skills: MySQL, MongoDB, Apache Tomcat, JPA, Jira, Agile Methodology, SDLC, CI/CD Pipelines

EXPERIENCE

NJIT

April 2025 – June 2025

Research Assistant

- Developed a Database Owner (DBO) Dashboard to securely manage outsourced data and client access rights, featuring a user-friendly interface for defining keyword-based access policies and monitoring file activity.
- Implemented secure data outsourcing using **Shamir's Secret Sharing** (SSS) to split and distribute the Access Control matrix, inverted indexes, and file contents, ensuring confidentiality against malicious servers.
- Optimized data structures and sharing processes to achieve query execution of **231.5 ms** over **500,000** files and **5,000** keywords, demonstrating efficiency and scalability.

BNP Paribas

Jan 2024 – July 2024

Full Stack Java Developer Intern

- Engineered a Jira Tracker platform to automate task tracking, implementing CRUD operations and REST APIs, reducing manual effort by **30%** and saving the team **5+** hours weekly.
- Redesigned user interfaces and removed redundant features, improving system performance by **15%** and reducing code complexity for easier maintenance.
- Implemented an environment display feature in the navigation bar, improving user awareness and reducing errors by **10%**, providing clear visibility of the active environment.
- Debugged and resolved a critical code-clashing issue, ensuring proper event handling and improving application stability.

PROJECTS

Job Search App | Java, Springboot, React

Oct 2025

- Developed a full-stack job search platform using React for the frontend and Java (Spring Boot, Spring MVC, Spring Data JPA) for the backend, enabling seamless interaction between users, companies, and reviews through **15+** RESTful APIs
- Containerized and deployed the application using Docker Compose, integrating PostgreSQL for production and H2 for local testing, which reduced setup time by **40%** and improved environment consistency.
- Integrated automated email notifications using Spring Mail **JavaMailSender** to send application and registration updates, enhancing user engagement and communication reliability

AI Price Estimator | Java, Springboot, AngularJS (Project link)

Aug 2025

- Built a **REST API**-based AI estimator platform for luxury watches and jewelry, enabling instant valuations and capturing user submission data for business insights.
- Implemented a custom-trained OpenAI GPT-4o assistant for luxury item valuation; fine-tuned the model using internal reference data and user-submitted certificates/images, achieving an estimated **90–95%** match rate with live market prices as of 2025
- Deployed it on AWS EC2 with a CI/CD pipeline (GitHub Actions) and integrated Supabase (PostgreSQL) as a cloud-hosted database

Flight Fare Prediction | Python, Numpy, Pandas (Project link)

Feb 2025

- Constructed a machine learning model to predict flight fares, achieving an accuracy of **82%** and reducing fare overestimation by **15%**.
- Processed and analyzed a dataset of **11,000+** records using Python, Pandas, and NumPy, and trained models like Random Forest Regressor and Decision Tree.
- Optimized model performance using hyperparameter tuning, saving users an average of **12%** on flight costs.