# RITU PUNIA

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## Education

**Atal Bihari Vajpayee Indian Institute of Information Technology and Management**  Gwalior,India
*Bachelor of Technology IT - CGPA: 7.27/10*  *Nov 2022–June 2026*

**Saraswati Shishu Sadan Senior Secondary School - Faridabad**  **2018–2021**
*Class-X: 92%*  *Class-XII: 96.4%*

## Experience

**Credesense**  **Dec 2024 – Feb 2025**
*Software Engineer Intern*  *Bangalore, Remote*

- Built Admin and Client dashboards using **Next.js 13 App Router** for efficient routing and modular navigation.
- Engineered a scalable **MySQL database schema** to optimize read/write operations and backend performance.
- Built a dynamic product detail page with real-time filtering based on user input to enhance personalization.
- Developed monthly sales and revenue analytics for Admin Dashboard, improving business data visibility by **40%**.
- Integrated **Stripe API** for secure, seamless payment processing with tokenized card handling and instant order confirmation.

## Projects

- **Algorithm Visualizer**
  - **Developed** a web-based visualizer for **graph algorithms**, including **Dijkstra's, A-Star, BFS,** and **DFS**, allowing users to understand pathfinding and traversal logic interactively.
  - **Integrated** dynamic visualizations for **sorting algorithms** like Bubble Sort, Quick Sort, Merge Sort, and Heap Sort using **JavaScript**, enhancing learning and engagement.
  - **Designed** a responsive front-end with **HTML** and **CSS**, ensuring seamless user experience across multiple devices with **95% usability efficiency**.
- **Fingerprint Recognizer**
  - Developed a fingerprint recognition and verification system using **deep learning (CNN)** and **TensorFlow**, achieving 95% accuracy.
  - Applied **image processing** techniques for dataset augmentation to improve the model's performance.
  - Created a **user interface** with **Streamlit** and deployed the system using real-time **image recognition**.
- **WebChat**
  - **Engineered** a real-time web-based chat application, comparable to WhatsApp, leveraging **React** for the front end and **Firebase** for real-time database and authentication services.
  - Implemented **Firebase Firestore**, enabling **instant message synchronization** with latency under 100ms, and **Firebase Authentication** for secure 99.9 percent uptime user login and account management.
  - **Designed** a responsive user interface using **React components**, achieving a 20 percent improvement in mobile and desktop browser compatibility.

## Technical Skills

**Languages:** JAVA, C, C++, JavaScript, HTML, CSS, SQL, Python
**Developer Tools:** VS Code, Figma, Canva, Photoshop
**Technologies/Frameworks:** Linux, GitHub, Windows
**Coursework:** Data Structures, Operating System, OOPS, Database Management System, Computer Networks

## Achievements

- **JGEC Winter of Code 2024 Contributor** Demonstrated strong skills by actively contributing to the month-long open-source program, JWoC'24.
- **Mentee at Codess Cafe 2023** Participated in Codess Cafe transformative program, designed to empower collegiate women by offering them a valuable platform to enhance their skill sets.

## Leadership / Extracurricular

- Volunteered to teach students in an orphanage through Rotaract Club, fostering education and community outreach.
- Organized the IEEE IATMSI International Conference, managing logistics and event coordination.
- Solved 250+ algorithmic problems on **LeetCode,** showcasing advanced problem-solving skills.
- Won a bronze medal at the state level in a NASA competition, highlighting technical expertise.
- Led multiple events as a core member of IEEE Club, enhancing leadership and event management experience.