Ajay Yadav

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EDUCATION

B.E. in **Computer Science and Business System**, **Chandigarh University** , CGPA: 7.6   2019 — 2023

SKILLS

Programming Skills   Java • JavaScript • HTML • CSS • Python

Tools & Technologies   Node.js • Express.js • React.js • Spring Boot • Next.js • Redux • MySQL • PostgreSQL • Git and GitHub • GCP • Docker • Kubernetes • Kafka • Socket.io • GraphQL • Jest • Supertest • OOPs • REST

Core Competencies   Data Structures • Algorithms • Design Thinking

EXPERIENCE

Persistent Systems | Software Engineer   Sept 2023 — ongoing

- Created user **authentication** and **authorization** system using **JWT**, ensuring data security and improving login efficiency by 30%.
- Developed robust **test cases** for APIs, achieving **90% test coverage** and **reducing bugs** in production by 25%.
- **Migrated** website from Next.Js version 12 to 14, improving **performance by 20%** and reducing build times by 15%.
- Created a Shopify app using Node.Js, and React.Js, leveraging Shopify's Metaobjects API to streamline data management tasks, leading to a **40% decrease in errors** and **30% increase in accuracy**, saving admin time.

INTERNSHIPS

Vitto Microfinance.Ai | Full Stack Intern   May 2023 — Sept 2023

- **Optimized** API and UI for paginated data, **cutting call times by 50%**, and added CSV export functionality to admin pages.
- Developed a bulk customized notification feature **empowering** admins to send personalized messages to Android app users. Resulted in a **25% increase in user engagement** and a **15% improvement in user retention**
- **Enhanced** codebase by **migrating 80% API** from JavaScript to TypeScript, leveraging stronger typing and improved **maintainability**.

Tata Consultancy Services | ML Intern   Jun 2022 — Jul 2022

- Created key functions for **text analysis reducing 95% time consumption**, enhancing medical insights.

PROJECTS

Social Sharing (visit)

- Developed a **mobile-responsive** social sharing app with **liking** and **commenting** features, increasing user **engagement by 35%**.
- Integrated **Google authentication** and **Redux** for login and state management, **improving** user login **efficiency by 40%**.

Real-time Notification System

- Built a **real-time notification** system using Socket.io, and **Kafka**, delivering notifications to users **instantly** with **99.9% uptime**.
- Implemented MongoDB for efficient storage, **reducing data retrieval time by 30%**.

Interactive Map Search (visit)

- Created an interactive map search app using **Mapbox GL** and **Algolia**, improving search **speed** by **50%**, implemented **pagination**.

Letflix (visit)

- A responsive movie search app with features like **infinite scrolling** and **dark mode** consuming the **TMDb** API to display data.

Encrypted Medical Prediction (visit)

- Developed a **Java-Maven** app with an ML developer. **Encrypts** 13 user health inputs via **homomorphic encryption** (Paillier scheme), stores on **AWS S3**, and triggers **92% accurate** ML model on **AWS Lambda**. **Decrypts** and displays results. Detects breast cancer.

ACHIEVEMENTS AND CERTIFICATIONS

GCP Certified Associate Cloud Engineer(view)   **Solved 500+ questions on Leetcode** (visit)

HOBBIES & INTERESTS

- **Managed** a team of 4 people to **organize** Persistent **Run** and Persistent Ultra Large Social Engagement(**PULSE**)-2024(See pictures).
- Volunteered in several **CSR activities** organized by Persistent Foundation.
- Managed a team of 8 for organising **university-wide** events(**Tashan Nights**, **International Youth Festival**).
- **Raised funds** for homeless shelter in a team of 11 people and distributed food, fruits, and vegetables to them.