

# Aman Umrao

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## Education

### Shri Shankaracharya Technical Campus, Bhilai

Bachelor of Technology in Information Technology

August 2021 – August 2025

CGPA 8.05

### Relevant Coursework

- Data Structures
- Algorithms Analysis
- Operating System
- Mathematics for CSE
- Artificial Intelligence
- Database Management
- Computer Network
- OOPS

## Technical Skills

**Languages:** C/C++, JAVA, SQL, Python, HTML/CSS, JavaScript, Bash

**Utilities:** Unix/Linux, Git, Github, AWS, Docker, Postman, Yarn, Jupyter Notebook, Cloudinary, Render

**Technologies/Frameworks:** ReactJS, NodeJS, MongoDB, Firebase, Selenium, shell scripting, Appwrite

**Concepts:** DSA, Problem Solving, SDLC, Debugging, Unit Testing, Microservices, Generative AI, Cloud Computing

## Experience

### Languify

Software Engineer Intern

July 2024 – September 2024

Remote

- Contributed to a live language modeling project, driving **significant reduction** in **processing time** and enhancing speech-to-text accuracy by implementing Hidden Markov Models (HMMs) in the ASR system.
- Created scripts to preprocess audio data and aggregate transcriptions, increasing **data processing efficiency** by 1.5x.

### WoRisGo

Backend Developer Intern

August 2025 – November 2025

Bengaluru

- Developed a Jira-style full-stack project management platform, integrating backend **REST APIs** with reliable **CRUD operations**, authentication workflows, and efficient data handling across services.
- Implemented secure backend architectures using PHP/MySQL (and exposure to Java/Node.js) while designing responsive, user-friendly frontends to ensure seamless cross-device user experience.

## Projects

### Share Bits Wirelessly | HTML, CSS, JavaScript, NodeJS, Python

↗ Live - 🐾 GitHub January 2024

- Built a wireless file-sharing app using Base64 encoding to convert files (upto 2KB) into QR codes for sharing.
- Configured file reconstruction via Blob handling and Base64 decoding, optimizing QR code generation with error correction techniques to ensure accurate file retrieval and reliable offline transfers.
- Applied a fully client-side solution to ensure privacy and security by eliminating server-side data processing.

### Live Docs | NextJS, TypeScript, Tailwind CSS, NodeJS, Liveblocks, Clerk-Auth

↗ Live - 🐾 GitHub December 2025

- Engineered a real-time collaborative document editing platform. Styled the UI with Tailwind CSS and ShadCN, enhancing user interactions with instant updates and **low-latency synchronization**.
- Employed Lexical Editor by Meta for rich text editing capabilities, achieving a **50% reduction** in update delays.
- Deployed Node.js as the backend and integrated Clerk-Auth for secure real-time **authentication**, resulting in **improvements** in document loading and saves time.

### Zed-Type | ReactJS, Tailwind CSS, NodeJS

↗ Live - 🐾 GitHub April 2025

- Designed a typing test website using ReactJS, with customizable themes and various time/ word modes.
- Developed **performance tracking** using the **Levenshtein distance algorithm** for string matching to measure typing speed and accuracy, alongside a responsive interface for both desktop and mobile.
- Integrated programming language-specific typing drills for JavaScript, Python, Java, and C++ to improve coding speed.

## Achievements

- ACM ICPC Asia West Regionalist 2023 - 1st in College & University, Rank 201
- CodeChef **3 Star** Max. Rating [1645]
- GeekForGeeks Institute **Rank 1**
- HackerRank **6 star** in problem solving
- AIR 91 | Global Rank 101/32181 in Starters 129
- Qualified Meta **HackerCup** Round 2 out of 21k+
- 1000+ problems solved on various coding platforms [ Leetcode, CodeChef, Codeforces, GFG, HackerRank ]