

Aman Umrao

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Experience

WoRisGo

November 2025 – January 2026

Backend Developer Intern

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.

Languify

July 2024 – September 2024

Software Engineer Intern

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**.

Projects

Zed-Type | ReactJS, Tailwind CSS, NodeJS

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- Designed a typing test website using ReactJS, with customizable themes and various time/ word modes.
- Developed **performance tracking** using the **Real-time String Matching and Difference Tracking algorithm** 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.

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

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- 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

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- 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.

Technical Skills

Programming Languages: C/C++, JAVA, SQL, Python

Web Development/Frameworks: HTML/CSS, Javascript, ReactJS, NodeJS, Selenium

Databases: MySQL, MongoDB, Firestore

Version Control: Git, Github

Utilities: Unix/Linux, shell scripting, AWS, Postman, Cloudinary, Render

Concepts: Data Structures & Algorithms (DSA), SDLC, Debugging, CI/CD, Automation

Coding Profiles & Ranks

- ACM ICPC Asia West Regionalist 2023 - 1st in College & University, Rank 201
- CodeChef **3 Star** Max. Rating [1645]
- GeekForGeeks Institute **Rank 1**
- AIR 91 | Global Rank 101/32181** in Starters 129
- 1000+ problems solved on various coding platforms [[Leetcode](#), [CodeChef](#), [Codeforces](#), [GFG](#), [HackerRank](#)]
- Codeforces pupil Max. Rating [1215]
- HackerRank **6 star** in problem solving
- Qualified **Meta HackerCup** Round 2 out of 21k+

Education

Shri Shankaracharya Technical Campus, Bhilai

August 2021 – August 2025

Bachelor of Technology in Information Technology

CGPA 7.7