Aman Umrao

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Experience

WoRisGo | **October 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* 　　　　　　　　　　　　　　　　　🗗 **Live** - ⦿ **GitHub**

- 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* 　　　　　　　　🗗 **Live** - ⦿ **GitHub**

- 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**

- 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 **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]　　　　• Codeforces pupil Max. Rating [1215]
- 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**]

Education

Shri Shankaracharya Technical Campus, Bhilai | **August 2021 – August 2025**

Bachelor of Technology in Information Technology | *CGPA 7.7*