

Aman Umrao

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Education

Shri Shankaracharya Technical Campus, Bhilai

Bachelor of Technology in Information Technology

August 2021 – August 2025

CGPA 7.7

Relevant Coursework

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

Technical Skills

Languages: C, C++, JAVA, SQL, Python, JavaScript, Bash

Utilities: Unix/Linux, Github, WordPress, Postman, Yarn, Jupyter Notebook, VS Code, Sublime Text

Technologies/Frameworks: ReactJS, NodeJS, NextJS, MongoDB, Firebase, Selenium, Shell Scripting, Git

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.
- Utilized TensorFlow and PyTorch for model training and evaluation, ensuring robustness in various environments.
- Created scripts to preprocess audio data and aggregate transcriptions, increasing **data processing efficiency** by 1.5x.

WoRisGo

August 2025 – November 2025

Software Engineer Intern

Bengaluru

- Developed end-to-end task and project management systems, including a Jira-style full-stack platform and a PHP–MySQL based task manager, focusing on CRUD operations, user workflows, and efficient data handling.
- 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

DDOS Attack Detection and Mitigation using ML | Python, Mininet, Ryu Controller, Linux [GitHub](#) April 2024

- Implemented Random Forest classifier **Machine Learning** algorithm to classify attacks and legitimate traffic with **97% accuracy** and detected DDoS attacks within **2 seconds** using machine learning. Reducing **network downtime**.
- Configured the network and wrote custom topology bash and **python scripts** to enable communication between hosts.
- Used Debian OS to run program on **Linux** environment for **testing** the system in SDN (**Software Defined Network**).

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

[Live](#) - [GitHub](#) January 2023

- 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.

Achievements

- ACM ICPC Asia West Regionalist 2023 - 1st in College & University, All India 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+

Leadership & Extracurricular

- Co-organized "Codecon Season 1 & 2" DSA coding competition at SSTC Bhilai, and contributed as a **problem setter** and tester for events with over 50+ participants.
- Mentored 30+ students as part of Girl Script Summer of Code Extended 24 (**GSSOC'24**), guiding them through **Open-Source contributions** for two projects by reviewing and helping them with pull requests.
- Actively contributing to range of open-source projects on GitHub, collaborating with global developer communities to address issues, propose or discuss solutions, and raising PRs, driving improvements in projects.