Aman Umrao

📞 +91 9755857161 ✉ amanraox@gmail.com 🌐 amanraox in linkedin.com/in/amanraox ⌂ github.com/amanraox

Education

Shri Shankaracharya Technical Campus, Bhilai　　　　　　　　　**August 2021 – August 2025**
Bachelor of Technology in Information Technology　　　　　　　　　*CGPA 7.7*

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, 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.
- 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 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

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]
- 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**]

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.