

Vansh Jangir

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EDUCATION

IIIT Naya Raipur

B.Tech. in Data Science and Artificial Intelligence, CGPA: 8.5

Raipur, Chhattisgarh

2022 - 2026

Dundlod VidyaPeeth

CBSE 12th - 95.00%

Jhunjhunu, Rajasthan

2015 - 2022

EXPERIENCE

ContractKen - Backend Intern | *Python, Flask, Redis*

August 2024 - Present

- Implemented changes in OpenAI function calls to make LLM output in JSON more reliable.
- Integrated the use of pdf in ContractKen's MS Word Addin by converting pdf to word file.

Rizin - Open Source | *C/C++, Deassembler, Decompiler* | [github](#)

- Refactored code for a better management of header files - [Pull Request](#).
- Fixed a bug in quitting the rizin CLI in debugger mode - [Pull Request](#).

PROJECTS

Hardcode: An online platform to solve coding problems | [website](#) [github](#)

- Developed an online platform to practice algorithmic problems, submit solutions and get results and statistics about the problem.
- Used **ReactJs** to make responsive frontend, **NodeJS** as backend with **Express** framework, **MongoDB** as a database and **Docker** to ease the deployment of the application. The submitted code runs inside another docker container to prevent any malicious code from damaging the entire system.
- Integrated **Rabbitmq** as messaging queue to scale the submission process independent from the rest of the system.

XDB: An ACID compliant database | [github](#)

- Created an **ACID compliant** database and storage engine from scratch purely in **Go**, which can be used to insert, update, delete and retrieve data.
- Implemented Disk-based **B+tree** data structure to organize data, **Copy-on-Write** append only mechanism for atomic writes and updates, Freelist to reuse disk pages for efficient storage.
- Supports create, read, update and delete operations and point query can be made in **O(logn)** time and range queries can be made in **O(k+logn)**

Load Balancer | [github](#)

- Designed a load balancer from scratch in **C++** using tcp socket programming, which can be deployed with any kind of http server and also monitor server health and give real time statistics.
- Leveraged thread library for **multi-threading** and **epoll** to integrated event driven architecture into the system.
- Multi-threading integration reduced the whole latency by **4x** (no of cores) and by integrating epoll, the cpu usage is reduced by **50%**.

Automated Resume Screening | [github](#)

- Developed an online platform for recruiters to test and sort resumes according to job profile and create a test for the applicant to test their skills.
- Used Word2Vec and **Cosine similarity** to predict the resume scores and used gemini api to generate test based on the profile, **ReactJS** for frontend, **NodeJS** with **Express** framework for backend, **MongoDB** for database.
- Using Word2Vec increased the resume score accuracy to **90%**.

ACHIEVEMENTS

Hackathons: Hack-O-Harbour - AIML track winner

TECHNICAL SKILLS

Languages: C, C++, JavaScript, Python, Go, C#, SQL.

Tools: GNU/Linux, Git, Docker, MongoDB, Make, CMake, Vim/Neovim, POSIX threads, socket programming, HTML, CSS, ReactJS, NodeJS, NextJS, ExpressJS, Flask.