CHIRAG MODI

M.Tech Computer Science and Engineering, IIT Gandhinagar

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Education

IIT Gandhinagar	**Gandhinagar, Gujarat**
Master Of Technology in Computer Science and Engineering	*CGPA:9.12, July. 2023 – July 2025*
The Maharaja Sayajirao University Of Baroda	**Vadodara, Gujarat**
Bachelor Of Engineering in Computer Science and Engineering	*Percentage: 74.5, July. 2017 – July 2021*

Relevant Coursework

- Data Structures and Algorithms
- Parallel and Distributed Systems
- Natural Language Processing
- Machine Learning
- Computer Network
- Computer Architecture
- Operating System
- DBMS
- Computer and Network Security

Experience

Kapidhwaj AI   **May 2024 – July 2024**
Software Engineer - Intern | Streming,Google Cloud, WebRTC,FFmpeg   *Research Park IIT GN, Gujarat*

- I am currently interning at a startup founded by an alumnus of IIT Hyderabad, specializing in crime detection using an ML-based model with high accuracy and low latency. My role involves developing a scalable, low-latency streaming solution in the cloud for IP camera feeds, ensuring efficient delivery to end users.

WiseDV India   **July 2021 – July 2023**
Software Engineer - Full time | MEAN Stack, WebRTC,AWS,Electron   *Vadodara, Gujarat*

- Developed features for Bozu's desktop application, including closed captions, meeting recordings, desktop notifications, and a crash reporter. Also contributed to UI enhancements and Angular component development for the web app.

- Optimized server code of bozu and devised auto-scaling policies for AWS infrastructure

- Orchestrated deployment of scaled servers leveraging AWS services, including CloudWatch, Autoscaling Group, RDS, and Elastic Load Balancer

- Developed a real-time logging system with NodeJS backend, Angular frontend, MongoDB, and server-sent events.

- Implemented Webdriver.io automation script to simulate virtual peer insertion in meetings for server load testing

Projects

Instant Payment Gateway | *Distributed Systems,Go lang,GRPC,ELK Stack,Mysql,Nginx,Docker* | Code ⌨   **April 2024**

- Designed and implemented a high-performance, fault-tolerant payment gateway mimicking UPI functionality, capable of handling thousands of concurrent requests.

- Implemented a load-balancing strategy using Nginx and containerized all servers and microservices (Nginx, MySQL, Elasticsearch) using Docker for streamlined deployment and management.

VOIP Call Application | *Angular, ELK Stack, WebRTC, Ejabberd XMPP*| Code ⌨   **May 2023**

- Designed and implemented a peer-to-peer video call application utilizing WEBRTC technology and XMPP signaling server.

- Integrated Elasticsearch to enable optimized searching of usernames from large user databases.

Technical Skills

Languages: C, Python, Java, JavaScript, Go Lang
Developer Tools: AWS,Git and GitHub ,Docker,Wireshark
Technologies/Frameworks: MEAN Stack,WebRTC,Electron,OpenMP,MPI,Pytorch,Numpy,Pandas
Databases:MySql, MongoDB, Elastic Search

Achievements

- Appointed as a "Sanchar Mitra" under the sanchar mitra scheme of DoT(Department of Telecommunication) for creation of awareness of the various departments citizen centric services

- Cleared BARC OCES/DGFS exam for scientific officer at BARC and have been selected for interview.

- Secured AIR 543 in Gate 2023 among 80k candidates.

- Having a 6-star badge in problem-solving on the hacker rank platform and solved more than 350 problems on leetcode

- Secured 5th rank in Baroda in 12th science GSEB