

Sachin Kumar

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EDUCATION

Chandigarh University

B.E - CSE

7.75 CGPA

2021 - 2025

S.G.D Paliputra High School

Patna, Bihar

73.4 %

2017-2019

TECHNICAL SKILLS

Programming Languages: C++ , Python, Java

Database Platform: MySQL, Firebase Firestore, MongoDB, PostgreSQL

Web Technologies: JavaScript, ReactJS, NodeJS, Express, WebSocket

Tools & Technologies: Git, GitHub, Linux, AWS, Docker, Kubernetes

CORE: Operating System, Computer Networks, DBMS

EXPERIENCE

Backend Developer Intern

CAC, Chandigarh, India

[LINK](#)

Nov 23 - Jan 24

- Spearheaded backend development to optimize college co-curricular activities, fostering collaboration and open communication, resulting in a **30% efficiency boost** in event coordination and participant tracking.
- Orchestrated development of Node.js, RESTful APIs, enabling seamless event updates to an **audience of over 10,000 students**.
- Leveraged MongoDB to establish a scalable registration system, accommodating over **10k+ students for event enrollment**.

PROJECTS

EduConnect

[Github](#)

- Integrated **WebRTC** to facilitate **peer-to-peer connections**, ensuring optimal video quality even with bandwidth as low as **300kbps**.
- Developed lightning-fast **full-duplex WebSocket** integration using socket.io, achieving real-time bidirectional data transfer at a blistering **1000 msg/sec**. Orchestrated React-Redux for optimal rendering performance.
- Fortified application security through **JWT-based user authentication**, XSS mitigation, and prevention of NoSQL injection attacks.
- Implemented **Multer** for image uploads and **Sharp** for optimized visuals. Integrated Razorpay payment gateway for secure transactions.

Three Tier Application Deployment on Kubernetes with ArgoCD

[Github](#)

- Architected deployment of three-tier application on personal **Kubernetes cluster** via Minikube, leveraging Docker and ArgoCD for seamless continuous deployment.
- Developed a three-tier application architecture, comprising a responsive front-end (HTML, CSS, JavaScript), scalable back-end (Node.js, MongoDB), and orchestrated deployment on **Kubernetes**.
- Demonstrated expertise in containerization and orchestration by successfully deploying and managing over **20 Docker containers across 5 Kubernetes pods**, utilizing ArgoCD for automated continuous deployment.

ACHIEVEMENTS

- **5G Vimarsh:** Secured Runner-up Position in the 5G Vimarsh Hackathon, a nationwide competition held at IIT Madras.
- **Codechef:** Clinched global rank **98 among 11,347 participants** in CodeChef June Long Two 2022.
- **Leetcode:** Successfully **solved 300+ problems**.