

# Aniket Wazarkar

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## PROFILE SUMMARY

- A **backend engineer** with expertise in **backend architecture**, **microservices**, and **real-time scalable applications**. Proficient in **C++**, **Python**, **JavaScript**, **Docker**, and cloud platforms like **AWS** and **GCP**, with a proven record of boosting **API performance** and enhancing system **reliability**, **scalability** and **security**.

## EXPERIENCE

- **JIO** Navi Mumbai, MH  
Oct 2023 - Present
  - *Software Development Engineer 1*
  - Engineered  **Jiomeet+**  (over **20 million active users**), integrated over **15-20 critical features** and refactored **legacy code**, including key functionalities such as **status management**, **real-time document collaboration**, and **link unfurling** using cloud functions, real-time document collaboration, enhancing collaboration experience and improving engagement by **30%**
  - Migrated and implemented **sharding** on a **500 million record collection**, boosting associated APIs performance by **50%**.
  - Built **User Status Management** with **publisher-subscriber model** for multi-device support. Implemented a **Bloom filter**-based architecture during new account creation, reducing redundant database calls and decreasing **CPU utilization by 40%**.
  - Redesigned **core modules**, leading to **20% faster API response time** improved maintainability, and ensuring seamless integration with frontend.
  - Participated in the design and implementation of **microservices architecture**, ensuring modularity and scalability for enterprise solutions.
  - Transitioned the **media engine** from third-party to a **custom-built in-house solution**, leveraging **bare-metal servers** to improve performance, reduce dependency on third-party services, and achieve greater control over media processing capabilities.

## SKILLS

**Languages:** Python, C++, JavaScript/TypeScript, Go  
**Backend:** Node.js, Express, gRPC, WebSockets, Socket.IO, NGINX, Redis, RabbitMQ  
**Databases:** MongoDB, PostgreSQL, Redis, CockroachDB, MySQL  
**Cloud:** AWS, GCP, Docker, Kubernetes  
**Architecture:** Microservices, Event-Driven, DDD  
**Soft Skills:** Collaboration, Critical thinking, Persistence, Reliability

## EDUCATION

- **Savitribai Phule Pune University** Pune, Maharashtra  
Feb 2021 - July 2023
  - *Bachelor of Engineering - Computer Engineering; CGPA: 9.47/10*
- **Government Polytechnic Amravati** Amravati, Maharashtra  
July 2018 - October 2020
  - *Diploma in Computer Engineering; Aggregate: 83.81%*

## PROJECT(S)

- **BuzzWire (Tech: Socket.io, Redis, MongoDB, HAProxy, Docker, React, WebSocket) 🏆:**
  - Developed a **scalable and distributed real-time chat application**, BuzzWire, supporting **unicast**, **multicast**, and **broadcast** messaging.
  - Designed a **horizontally scalable backend architecture** utilizing **Socket.io** for WebSocket communication, **Redis Pub/Sub** for event consistency, and **HAProxy** for load balancing.
  - Implemented **message caching** and **persistence** through Redis and MongoDB, ensuring low-latency communication and reliable data storage.
  - **Containerized** the application using Docker and orchestrated deployment with **Docker Compose** for seamless environment setup.
  - Built a **React-based frontend** with real-time WebSocket integration, delivering a smooth user experience for room-based chats.

## CERTIFICATIONS

- **Oracle Cloud Database Services 2021 Certified Specialist:** Oracle University
- **Oracle Cloud Infrastructure Foundations 2021 Certified Associate:** Oracle University
- **AWS Cloud Practitioner Essentials Training:** AWS