# Kaustubh Duse

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## EDUCATION

**Indian Institute of Information Technology, Vadodara**      **2022–2026**

*Bachelor of Technology in Computer Science and Engineering* (CGPA - **8.01**)      *Gandhinagar, Gujarat*

*HSC (12th) -* **88.67%**      *Board: State Board*

*SSC (10th) -* **97.8%**      *Board: State Board*

## SKILLS

– **Languages:** C,C++, JavaScript
– **Frameworks & Libraries:** React.js, Express.js, Next.js
– **Runtime:** Node.js
– **Tools:** Git,Docker,Kubernetes, Jenkins
– **Cloud:** AWS, Azure, Vercel
– **Databases:** MongoDB, PostgreSQL, MySQL, Redis, Firebase
– **Others:** RabbitMQ, Socket.IO, OAuth2.0

## EXPERIENCE

**Wikiance**      **Mar 2025 – June 2025**

*Backend Developer Intern*

– Developed a notification system using **RabbitMQ** and **Socket.IO** to deliver real-time user-specific and global messages.
– Implemented **RabbitMQ retry mechanism** and **exponential backoff algorithm**, ensuring successful message delivery and reducing data loss incidents to near-zero during peak traffic.
– Set up **Dead Letter Queues (DLQ)** and automatic **DLQ monitoring** for unprocessed messages to prevent silent failures.

## PROJECTS

**SportSync Event Platform** ⓞ      **Dec 2024 – Mar 2025**

*Node.js, Express.js, MongoDB, PostgreSQL, Prisma, Google OAuth 2.0, Redis, Socket.IO, RabbitMQ, Stripe, Docker, Kubernetes, AWS EC2, AWS EKS, Jenkins, ArgoCD, Prometheus, Grafana*

– Designed and deployed 6 decoupled microservices: **Auth**, **User**, **Events**, **Auction**, **Live Score**, and **Payment** with **Docker + Kubernetes**..
– Enabled real-time bidding and score updates using **Redis + Socket.IO** reducing end-to-end update latency. User registration data is instantly synced to the auction service via **RabbitMQ**, eliminating manual polling delays.
– Deployed microservices to **AWS EKS** (bootstrapped via **EC2**); implemented CI/CD with **Jenkins + ArgoCD** and monitored infrastructure using **Prometheus** and **Grafana** on EC2.

**Food Ordering Website (Frontend)** ⓞ ⊕      **Jun 2024 – Aug 2024**

*HTML,CSS,Javascript,React.JS(v18),React Context API, Firebase*

– Developed a client-side food ordering interface using **React**.
– Implemented core UI functionality including product listing, cart management, and checkout navigation.
– Ensured responsive layout and intuitive user experience across devices.

## ACHIEVEMENTS

– Secured **2nd rank** in Penumbra (a Maths Olympiad), organized at IIITV's Annual TechFest Cerebro.
– Ranked as a **3-Star** coder on CodeChef
– Solved **500+** coding problems on platforms including **LeetCode** and **GFG**

## EXTRA CURRICULAR ACTIVITIES

– Active member of the **Technical Committee** and contributed to organizing various college events.
– Part of the **Enigma Mathematics Club** and assisted in conducting quizzes and competitions.