

Mayur Valecha

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Education

Indian Institute of Information Technology Surat

Dec 2021 – Jul 2025

B.Tech. in Electronics and Communication Engineering CGPA: 8.7/10

Work Experience

ARIZON SYSTEMS PVT LTD

Jan 2025 – Apr 2025

Full Stack Developer Intern

- Optimized APIs and database operations using **Prisma ORM** and **Knex.js**.
- Integrated secure user authentication with **JWT** and **Bcrypt** Along side **LDAP**, and ensured robustness with **90%+ test coverage** using **Jest**.
- Coded comprehensive **k6** load-testing scripts covering 35+ API endpoints and introduced **Redis caching**, halving response times.
- Employed **Redis queues** and **Node.js worker threads** for offloading background tasks, reducing main-thread load by 20% and CPU usage by 25%.
- Worked with large datasets using **PostgreSQL** and **TimescaleDB**, and deployed multiple full-stack modules across **ReactJS**, **Node.js**, **Express.js**, **TypeScript**, **MongoDB**, **Redis**, and **Jest**.

ARIZON SYSTEMS PVT LTD

Feb 2024 – Apr 2024

Full Stack Developer Intern

- Enhanced API performance, achieving an average of **60% faster response time** across refactored endpoints.
- Replaced Zod-based MongoDB schema setup with **Prisma ORM**, streamlining data modeling and boosting reliability.
- Built a flow-based API test script in **JavaScript** covering 40–50 routes, and integrated auth using **JWT** and **Bcrypt**.
- Engineered and deployed **5+ production-grade modules** with **ReactJS**, **TypeScript**, **Node.js**, **Express.js**, **Prisma**, and **MongoDB**.

Projects

Upsales (*Node.js, Express.js, MongoDB*)

[Source Code](#)

- Developed a web application for global sales management with predictive analytics, reducing the time spent on manual reporting by more than 50%.
- Enabled remote access to historical sales data and integrated **forecasting models** to inform product launches and predict performance.
- Built a user-friendly **React.js** frontend and a secure **Node.js/Express.js** backend with **JWT** and **Bcrypt** authentication.

MediLocker (*Node.js, Express.js, MongoDB, React.js, Kafka*)

[Source Code](#)

- Empowered doctors to **remotely access and manage** patient medical history for improved care.
- Developed a secure web application (**ReactJS frontend, NodeJS & ExpressJS backend**) for a healthcare system.
- Enabled pre-booking for hospital appointments, reducing patient wait times by 25% and improving scheduling efficiency for healthcare staff.
- Implemented secure login and user roles with **JWT tokens**, **Bcrypt** and **Passport** for patient data privacy.
- Integrated **Kafka** to send mail using **Nodemailer**, which works on a different thread of Node.js, enhancing performance and reliability in email delivery.

Achievements

- **All India Rank 95 in ICPC Amritapuri** Regional 2022
- **All India Rank 128 in ICPC Amritapuri** Regional 2021
- Global Rank **267** in CodeChef Starters 43 Div 2
- Top 10 at All India DevHeat 2022 (GDSC IIIT Surat)
- Mentored 30+ teams for Sprint Fiesta 2024 Coding Committee

Technical Skills

Programming Languages: C, C++, JavaScript, TypeScript, Solidity

Frameworks/Libraries: Node.js, Express.js, React.js, Ethers.js, Hardhat

Databases: MongoDB, PostgreSQL, TimescaleDB, Redis

Tools/Cloud: AWS (EC2, S3, IAM, VPC), API Gateway, Postman, Git, Prisma, Kafka

Testing: Jest, k6

Coursework: OS, DSA, OOP, DBMS