

# VIKAS BHARTI

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## Experience

### QSC

Jul 2024 – Present

#### Software Engineer

- **Refactored legacy React dashboards** in the internal **Q-SYS Cloud Monitoring Portal** into **functional components** using React.memo and useMemo, cutting **unnecessary re-renders by 30%** and improving real-time telemetry updates.
- Optimized **backend analytics services** that power cloud-side metrics aggregation by replacing **deeply nested SQL subqueries** with **Common Table Expressions (CTEs)**, improving **query performance 8×** on customer-facing endpoints.
- Converted blocking middleware to **non-blocking asynchronous logic** with async/await, reducing event loop latency and improving the **responsiveness of telemetry APIs** that process thousands of device updates per minute.
- **Engineered diagnostic Lua modules** within Q-SYS Designer to monitor **real-time packet flow between Q-SYS video codecs**, enabling rapid identification of **packet loss, jitter, and network sync issues** directly from the Q-SYS control interface.
- Designed and implemented a **CPU performance monitoring tool** to track usage per process, enabling better system resource allocation and improving overall device performance and reliability.

## Skills

- **Languages:** Python, Java, JavaScript, SQL
- **Frameworks:** react.js, express.js, spring boot, hibernate, servlets, node.js
- **Tools:** Docker, postman, git, github
- **Platforms:** Azure, AWS, Linux, GitHub Actions
- **Core:** Data Structures, Algorithms, Database, OOPS, Operating System, System Design, Computer Networks.

## Education

### CMR Institute of Technology

Nov 2020 – Jun 2024

B.Tech in Computer Science

Bangalore Urban

## Projects

### VChat

Feb 2025

- Developed a dynamic web application using **React**, **ShadCN**, and **Tailwind CSS** for a fully responsive design.
- Implemented JWT authentication and file management with **Multer** for secure user sessions and file uploads.
- Integrated real-time messaging functionality with **WebSockets** for seamless communication.
- Utilized **Zustand** for efficient state management and **Axios** for API interactions, ensuring high code quality

### Employee Reviewer Analyzer

Aug 2024

- Developed a model using **NLP to analyse sentiment** in Glassdoor reviews.
- Visualized sentiment distribution and leveraged **LLM to generate summaries**.
- Provided actionable insights for companies to improve workplace culture and helped job seekers make informed decisions.

### filmvault

Nov 2024

- An IMDb clone with React, featuring a **personalized movie recommendation system**.
- The app offers seamless browsing, detailed movie info, and tailored suggestions based on user preferences.
- Utilized responsive design for **cross-device compatibility** and **React's state management** for dynamic updates, showcasing proficiency in front-end development and user experience.

## Certificate

- ML, Deep Learning & GenAI 
- Front-End Web Development with React 