

VIKAS BHARTI

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Experience

QSC

Software Engineer

Jul 2024 – Present

- 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 8x 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

B.Tech in Computer Science

Nov 2020 – Jun 2024

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