SAGAR CHAVHAN

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PROFESSIONAL SUMMARY

High-Performance Computing (HPC) enthusiast and Frontend Developer with 2+ years of experience in building scalable web applications and optimizing compute-intensive workloads. Hands-on experience with CUDA, OpenMP, SLURM, and GPU acceleration on PARAM Utkarsh supercomputer. Strong foundation in parallel computing, multithreading, Linux systems, and performance profiling. Proven ability to improve application efficiency, implement secure distributed systems, and develop high-performance solutions.

PROFESSIONAL EXPERIENCE

TicketsQue   01/2023 – 08/2024
Software Engineer

- Developed a scalable event management application using **React.js, Node.js, Express, and MongoDB**.
- Implemented **OTP-based authentication** enabling secure email and mobile number access.
- Integrated **Razorpay payment gateway** with webhook handling, refunds, and transaction validation.
- Enhanced system performance by optimizing **REST APIs** and improving frontend state management.
- Collaborated within an **Agile/Scrum** team to strengthen platform reliability and user experience.

Adihptham Technology   01/2022 – 05/2023
Frontend Developer

- Designed responsive and modular UI for the **E-amantrana digital invitation platform** using React.js.
- Implemented **QR-based and missed-call guest access workflows** for seamless event entry.
- Developed reusable React components with **Redux-based state management** for scalability.
- Integrated **REST APIs** to enable real-time event data rendering.
- Improved **cross-browser compatibility** and optimized mobile performance for better user experience.

KEY ACHIEVEMENTS

TicketsQue Platform Development

Built a comprehensive event management platform that provides users with a complete solution for managing events seamlessly

E-amantrana Digital Invitation Platform

Contributed to the development of a digital invitation system that offers innovative event access methods

EDUCATION

Reva University, Bengaluru   10/2020
B.Tech Computer Science & Engineering
Relevant Coursework: Parallel Computing, Operating Systems, Data Structures, Computer Architecture

TECHNICAL SKILLS

Programming
C C++ Python, JavaScript (ES6), Shell Scripting.

Frontend
React.js, React Native, Next.js, Redux, Context API, HTML5, CSS3, Tailwind CSS

Parallel & HPC
CUDA ,OpenMP, MPI, SLURM, RAPL, NVML, Parallel Computing, Multithreading, Performance Optimization

Backend
Node.js, Express.js, REST APIs

Systems & Tools
Linux, Git, GitHub, Debugging, Profiling HPC Clusters

Data
NumPy, Pandas, MongoDB

HPC & APPLICATION PROJECT

Monitoring CPU & GPU Power Consumption using RAPL
Project aimed at measuring power & energy consumption of CPU and GPU
- Gained hands-on HPC experience on the **PARAM Utkarsh Supercomputer**, focusing on energy profiling and workload analysis.
- Developed and optimized **CUDA-based GPU programs** and **OpenMP multithreaded CPU solutions** to improve parallel performance.
- Measured CPU/GPU power consumption using **Intel RAPL** and **NVIDIA NVML** for fine-grained energy monitoring.
- Automated HPC workflows with **Linux and Python scripting** and implemented **SLURM** for efficient job scheduling and cluster management.
- Performed comprehensive performance profiling and tuning to enhance compute efficiency under diverse workloads.

TicketsQue — Event Management Platform
TicketsQue is an all-in-one event management platform that facilitates booking event tickets, finding venues, and reserving tables
- Built full-stack ticket booking and event management system
- Implemented secure payment workflows and transaction validation
- Developed user profile, ticket history, and booking modules
- Optimized checkout flow for improved performance and reliability

E-amantrana — Digital Invitation Platform
E-amantrana enables users to send wedding and event invitations online with innovative access systems
- Developed responsive digital invitation interface
- Implemented QR and missed-call based event access
- Integrated REST APIs for dynamic event data
- Improved UI performance and mobile responsiveness