

SAGAR CHAVHAN

✉ sagarsc01@gmail.com ☎ 7795905230 ⬇ Bengaluru, India

Github: <https://github.com/SAGARcse98> LinkedIn: linkedin.com/in/sagar-chavhan-a423b0151

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 <i>Software Engineer</i>	01/2023 – 08/2024
<ul style="list-style-type: none">Developed scalable event management platform using React.js, Node.js, Express, and MongoDBImplemented secure OTP-based authentication system supporting email and phone loginIntegrated Razorpay payment gateway with webhook processing and refundsOptimized REST API performance and reduced frontend latencyCollaborated in Agile/Scrum environment with cross-functional teams	

Adihpthem Technology <i>Frontend Developer</i>	01/2022 – 05/2023
<ul style="list-style-type: none">Built responsive UI for E-amantrana digital invitation platformImplemented QR-based and missed-call driven guest access workflowsDeveloped reusable React.js components with ReduxIntegrated REST APIs for real-time event renderingEnhanced cross-browser compatibility and mobile performance	

EDUCATION

Reva University, Bengaluru <i>B.Tech Computer Science & Engineering</i> Relevant Coursework: Parallel Computing, Operating Systems, Data Structures, Computer Architecture	10/2020
Basaveshwar PU Science College Bagalkote <i>PUC Science</i> Relevant Coursework: Mathematics, Physics, Chemistry	08/2016

TECHNICAL SKILLS

Programming C C++ Python, JavaScript (ES6), Shell Scripting.	Parallel & HPC CUDA ,OpenMP, MPI, SLURM, RAPL, NVML, Parallel Computing, Multithreading, GPU Acceleration, Performance Optimization	Frontend React.js, React Native, Next.js, Redux, Context API, HTML5, CSS3, Tailwind CSS
Backend Node.js, Express.js, REST APIs		Data NumPy, Pandas, MongoDB
Systems & Tools Linux, Git, GitHub, Debugging, Profiling HPC Clusters		

HPC & APPLICATION PROJECT

Monitoring CPU & GPU Power Consumption using RAPL

Tech: Python, CUDA, OpenMP, Linux, RAPL, NVML, SLURM

- Executed energy profiling experiments on PARAM Utkarsh Supercomputer
- Measured CPU and GPU power consumption under workloads
- Developed CUDA-based parallel programs for GPU acceleration
- Applied OpenMP for multithreaded CPU execution
- Implemented SLURM job scheduling for HPC cluster workload management
- Automated experiment pipelines using Linux shell scripting and Python

TicketsQue – Event Management Platform

Tech: React.js, Node.js, Express, MongoDB, Razorpay

- 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

Tech: React.js, Node.js, MongoDB

- 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

SOFT SKILLS

Adaptability & Learning Agility

Strong adaptability and a keen willingness to learn

Critical Thinking

Ability to analyze problems systematically and deliver effective solutions

Problem-Solving

Skilled in identifying issues and resolving them efficiently