

# 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

<b>TicketsQue</b> <i>Software Engineer</i> <ul style="list-style-type: none"><li>Developed scalable event management platform using React.js, Node.js, Express, and MongoDB</li><li>Implemented secure OTP-based authentication system supporting email and phone login</li><li>Integrated Razorpay payment gateway with webhook processing and refunds</li><li>Optimized REST API performance and reduced frontend latency</li><li>Collaborated in Agile/Scrum environment with cross-functional teams</li></ul>	01/2023 – 08/2024
<b>Adihptham Technology</b> <i>Frontend Developer</i> <ul style="list-style-type: none"><li>Built responsive UI for E-amantrana digital invitation platform</li><li>Implemented QR-based and missed-call driven guest access workflows</li><li>Developed reusable React.js components with Redux</li><li>Integrated REST APIs for real-time event rendering</li><li>Enhanced cross-browser compatibility and mobile performance</li></ul>	01/2022 – 05/2023

## EDUCATION

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

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## TECHNICAL SKILLS

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### Programming

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

### Backend

Node.js, Express.js, REST APIs

### Parallel & HPC

CUDA ,OpenMP, MPI, SLURM,  
RAPL, NVML, Parallel  
Computing, Multithreading,  
GPU Acceleration, Performance  
Optimization

### Systems & Tools

Linux, Git, GitHub, Debugging,  
Profiling HPC Clusters

### Frontend

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

### Data

NumPy, Pandas, MongoDB

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## HPC & APPLICATION PROJECT

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### 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

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## SOFT SKILLS

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### 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