Yash Gupta

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Experience

Software Engineering Intern July 2025 – August 2025
MobiRapid *Bengaluru, Karnataka*

- Developed scalable full-stack inventory management system using React, Node.js, and MongoDB, ensuring secure and reliable stage-wise device tracking
- Designed RESTful APIs and optimized MongoDB queries with indexing to achieve sub-200ms response on 10K+ records, improving system performance and reliability
- Implemented JWT-based authentication and role-based access with audit logs to strengthen security and support multi-team collaboration
- Built dynamic user-facing forms with validation to reduce manual errors and improve customer experience
- Automated reporting workflows and integrated cross-platform CORS-secured APIs to streamline operations and enable third-party integrations

Education

B.M.S College of Engineering Sep 2023 – May 2027
B.Tech in Electronics and Telecommunication — CGPA: 8.2 *Bengaluru, Karnataka*

Projects

Electronics Signal Generator | ***C++, Arduino, ESP32, C***

- Developed a real-time waveform generator on ESP32 using DAC output with custom lookup tables for sine, triangle, sawtooth, and square waves
- Integrated SH1106 OLED display to visualize waveform, frequency, and amplitude with responsive button-based user controls
- Optimized ISR-driven DAC pipeline at ∼43 kHz for smooth analog signal output with simple debounce handling for reliable input

YEEZUS | ***JavaScript, React.js, GSAP***

- Created an engaging, scalable web app with scroll-triggered animations and optimized asset delivery
- Applied advanced CSS and JS techniques (clip-paths, transitions, 3D hover effects) to design interactive user experiences
- Enhanced storytelling and engagement with video-driven transitions and responsive design principles

Extracurricular Achievements

Senior Flight Control Engineer June 2024 – July 2025
Rocketry BMSCE *Bangalore, Karnataka*

- Engineered control algorithms in C++ to improve reliability and stability of high-performance flight systems
- Optimized real-time sensor data pipelines and reduced latency in control loops, showcasing strong problem-solving in distributed, performance-critical systems
- Simulated and validated algorithms under varying conditions, reinforcing focus on scalability, testing, and fault tolerance

Technical Skills

Languages: JavaScript, Python, Java, C/C++, HTML, CSS
Frameworks & Tools: React, Node.js, Express.js, TypeScript, FastAPI, Git, Linux
Concepts: REST APIs, Web Services, SOA, Distributed Systems, Data Structures
Libraries: GSAP, Three.js, NumPy, Matplotlib, PyTorch