UTKARSH SAXENA

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SUMMARY

Engineering undergraduate currently interning as a Software Engineer at National Instruments (Emerson), with a strong academic record and a solid foundation in programming and problem solving. Demonstrates a proven ability to innovate, deliver value, and drive continuous improvement in dynamic, fast-paced environments. Passionate about contributing to impactful software solutions and aligning technical efforts with organizational goals.

EDUCATION

M S Ramaiah Institute of Technology *Bangalore, Karnataka*
Bachelor of Engineering in Electronics and Instrumentation Engineering, CGPA: 8.0/10 *Expected 2025*

Hartmann College *Bareilly, Uttar Pradesh*
Senior Secondary (ICSE), Score: 92.4% *2020*

SKILLS

Programming Languages	C++, C#, Python, SQL
Database Management	PostgreSQL, MySQL, MongoDB, Firebase
Development & Frameworks	HTML, CSS, JavaScript, React, Node.js, Express, RESTful APIs, .NET
Data Analysis	Power BI, Tableau, MS Excel, Pandas, NumPy
Tools & Platforms	Git, GitHub Actions, Azure Pipelines, CI/CD, Visual Studio
Courses	OOPS, DBMS, Computer Networks, Operating Systems, Unix

EXPERIENCE

National Instruments (Emerson) *Bangalore, Karnataka*
Software Engineering Intern *Jan 2025 - Present*

- Streamlined issue management by automating 5 CI/CD workflows across GitHub and Azure DevOps, enabling real-time updates for developers and reporters.
- Engineered 4 cross-platform release pipelines (GitHub & Azure), reducing biannual deployment time from approximately 2 hours to under 5 minutes with a one-click solution.
- Enhanced build and installer scripts and updated 12+ dependencies per cycle, maintaining CI pipeline reliability across multiple bundled systems.
- Developed maintainable export modules and performance test components, enhancing interoperability between teams within the organization.

PROJECTS

Insights Hub (Blog Website) — *React, Node.js, HTML, CSS, RESTful APIs, MongoDB*

- Developed a dynamic blog website with a focus on user engagement and responsive design.
- Implemented user authentication and integrated RESTful APIs for seamless interactions.
- Optimized site performance and security, enhancing the overall user experience.

Chat Space (Real-Time Chat Application) — *React, HTML, CSS, Firebase*

- Built a real-time chat application featuring a responsive interface and robust messaging functionality.
- Leveraged Firebase for secure user authentication and real-time data synchronization.
- Designed interactive elements to improve user engagement and application reliability.

Personal Portfolio Website — *React, HTML, CSS, Context API*

- Created a visually appealing portfolio website to showcase personal projects and technical skills.
- Applied responsive design techniques to ensure optimal viewing across devices.
- Integrated context API to manage the application state and enhance user interactions.