




# MIHIR BAGGA

Bengaluru

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## Skills

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**Programming Languages:** Javascript, Python, HTML, CSS, SQL, Lua

**Technologies/Frameworks:** React.js, Next.js, Redux, Jest, Flask, FastAPI, Neo4j, Airflow, Jenkins, BitBucket, Jira

**Developer Tools:** VS Code, Docker, Jupyter lab

## Experience

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### Mareana Software

June 2021 – Present

Senior Software Developer

Bengaluru, Karnataka

#### Manufacturing Intelligence and CMC (Chemistry, Manufacturing, and Controls) (Product)

- Spearheaded the **Admin** module in the Manufacturing Intelligence product, streamlining user experience with a configuration-driven UI and advanced pipeline creation capabilities.
- Developed a Genealogy hierarchy visualization using D3.js to display manufacturing batch-wise hierarchies, and created an NPM package for reuse across multiple applications.
- Implemented SAML login integration and e-signature functionalities across all modules, enhancing security and compliance.
- Developed and managed the scheduler and cron systems for Airflow jobs, successfully integrating these systems across multiple modules of the Manufacturing Intelligence application.
- Enhanced the reporting tool by implementing caching strategies for JSON data, significantly reducing data retrieval times and improving user experience.
- Engineered coordinate plotting capabilities within PDFs for paper batch records documents used in manufacturing, ensuring high precision in text extraction.
- Developed a comprehensive module for seamless resource migration between servers via an intuitive application interface, facilitating efficient server management and maintenance..

#### Cusa Log (Product)

- Developed a service to automatically perform a set of operations on files generated by a CUSA machine (A medical machine used in tumor surgery) which extracts and transforms the data to decrease the time needed for doctors to visualize or to identify the machine reports and check errors while using the machines which reduces a lot of manual work and time by hours .
- Automated FTP, Azure, and SharePoint processes for manual file handling, reducing processing time from hours to 5 minutes.
- Incorporated a file validator script using Python to ensure the file has all the valid information

#### Territory Simulation (Product)

- Developed a comprehensive UI using the Mapbox library for visualizing customer locations and sales territories on interactive maps.
- Developed Python scripts to extract postal codes and geographic coordinates (latitude and longitude) from customer addresses for all territories, ensuring accurate territory mapping on map
- Implemented advanced mapping tools to track region- and customer-wise sales, providing 15+ dynamic and actionable insights for business decision-making results in 2x sales growth
- Led the development of an interactive simulation feature on the map platform for real-time territory management, significantly enhancing the planning and execution of sales strategies

## Position of Responsibility

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- Provided effective leadership by managing and mentoring a team of five junior members, conducting daily meetings to monitor progress across critical development areas.
- Successfully designed, developed, and delivered all assigned modules within specified timelines, both individually and as part of a team effort
- Recognized for outstanding performance with two times Pinnacle Performer of the Year awards and three Quarterly Best Performer awards.

## Education

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### Punjab Technical University

Bachelor of Technology in Computer Science

July. 2017 – June 2021

Mohali, Punjab