

# Saumik Keshari

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## Summary

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Passionate and driven software developer skilled in C++, SQL, and Python. Constantly exploring emerging technologies, tackling complex challenges, and creating efficient, scalable solutions to improve user experiences.

## Technologies

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**Languages:** C, C++, Java, Python, SQL

**Web technology:** HTML, CSS, django, react.js, node.js

**Tools & Technologies:** Docker, VirtualBox, Bash, Postman API, Ignition, Git, GitHub, Jira

**Database:** MySQL, Microsoft SQL Server (SSMS)

## Experience

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**Trainee Engineer**, Axcend Automation – Bangalore, India July 2024 – Present

- Developed a **MES** system using Ignition and **API integration with SAP ERP and using MQTT to PLC systems**, improving production efficiency and real-time data visibility.
- Used **Docker** for containerization, ensuring consistent deployment across various environments.
- Enhanced security by implementing **OAuth 2.0 for user authentication** and **SSL/TLS** encryption for secure data transmission.
- Collaborated with a team of 6 to develop a **PLM** system using Ignition and MSSQL, streamlining product lifecycle management and **reducing downtime by 20%**.

**Trainee Engineer Intern**, Axcend Automation – Chennai, India January 2024 – June 2024

- Developed a **Java module** for Ignition using **Gradle/Maven** to parse and manipulate Excel files, integrating the functionality seamlessly into Ignition for improved data handling.
- Assisted in the development of a web app using Ignition to automate various manufacturing processes, improving operational workflow.
- Contributed to the development of a **PLM** system for the manufacturing industry, focused on optimizing product lifecycle management and enhancing operational efficiency.
- Automated the **extraction, transformation, and processing of large datasets from legacy systems** using SQL and Python, reducing manual effort and improving data accuracy.

## Projects

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- Created a job portal using **React.js, Node.js, and MySQL**, allowing users to search for jobs, apply directly via job links, and upload resumes, enhancing the job application process for users and employers alike.
- Used **VirtualBox** for improving lab accessibility and enhancing learning experiences in a virtual environment.
- Built a Book Recommendation System using **Streamlit, and Pandas** to suggest relevant books based on users' past reading history. Leveraged machine learning algorithms to identify and recommend books with similar themes and genres, enhancing the user experience.
- Built a CMS with **Django** to streamline content creation, management, and publication, featuring user authentication, content categorization, and rich text editing.

## Education

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**Pondicherry University**, Master in Computer Application Oct 2022 – June 2024

- CGPA: 8.39/10

**Mahatma Gandhi Kashi Vidypeeth**, Bachelor in Science July 2018 – Oct 2021

- Percentage: 60.9%

## Certification

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- Advanced React by Meta, Sql Intermediate-HackerRank, SQL Advanced-HackerRank, Java-HackerRank