

# Keshav Raj

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## SUMMARY

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Full-stack Engineer (Python/React) with 3+ years of experience in web tech. Skilled across backend, frontend, databases and data analytics. Successfully lead teams and contributed to product/company acquisition.

## EXPERIENCE

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Infor Jul 2024 – Present

Hyderabad, India

### • Software Engineer II

Jul 2024 – Present

- Integrated **Apache Superset** with **Delta Lake** into the **DataMesh** platform, launching 20 real-time dashboards used by over **20,000 users** for data visualization and decision-making.
- Implemented **CDC (capture data change)** on **MongoDB** to build audit trails.
- Diagnosed and resolved critical **memory leaks** using Chrome DevTools, cutting long-running functions and boosting performance by up to **90%**.
- Implemented a **React error boundary** to capture and log runtime errors proactively, reducing developer debugging time from **10 hours to 2 hours** per week.
- Developed and deployed a **rich text editor (Tiptap)** and **media viewer** (PDF, image, video) adopted by **25,000 users** within the first **24 hours**, reducing reliance on external tools.
- Built a **WYSIWYG email template editor** using **contenteditable**, eliminating 3 hours of developer time per week and **saving users about 5 hours weekly**.
- Architected and launched an **invoice processing system** using **Qwen** to feed an event-driven data entry pipeline, reducing SLA from **48 hours to 1.5 minutes**, processing **7,000 invoices/month** and saving approximately **\$50K per month**.

albanero (acquired by Infor) Jun 2021 – Jul 2024

Hyderabad, India

### • Software Engineer II (6 months)

Jan 2024 – Jul 2024

- Cut memory usage in the **CSV-to-Excel pipeline** by **90%** (from 52GB to 4GB for  $\approx 3M$  records), saving about **20 hours per week** in processing time.
- Built **custom React hooks** and leveraged **Context API** to reduce code duplication from **40% to 5%** across 200+ components, simplifying maintenance and improving scalability.
- Engineered a feature to merge **multi-GB CSVs (up to 3GB)** into a single Excel with dedicated sheets, processing over **100K files** to date and saving **8 hours per week**.

### • Team Lead (8 months)

May 2023 – Jan 2024

- Built a **data mastering system** using the **Jaro-Winkler algorithm** to deduplicate over **400K records**, improving data quality and reliability.
- Led a team of **6 engineers** to deliver two key products, one of which went live in just **6 weeks**, accelerating time-to-market.
- Conducted **80+ training sessions** on the **DataMesh platform** for **100+ employees**, increasing adoption of decentralized architecture and scalable workflows.
- Standardized entity names using **NER** with **spaCy** and integrated **Loqute** for address verification, reducing manual effort for users by about **1 hour daily**.

### • Software Engineer I (8 months)

Sep 2022 – May 2023

- Upgraded **Node.js** across 20+ microfrontends and led migration from **Vue.js** to **ReactJS** with Material UI, giving back about **20 minutes of time to users** per day through improved performance.
- Built a dynamic **SQL query generator** to search/filter **millions of records**, now handling over **1M+ queries per day**.
- Introduced **smart validation** with live suggestions and global **time-aware scheduling**, reducing errors by **20%**.

### • Software Engineer Intern (1 year 4 months)




Jun 2021 – Sep 2022

- Implemented **multi-theme support** in a **SaaS platform** (including a light theme that improved sales presentations) and standardized **SCSS practices** for consistent UI.
- Built core features in **Identity Access Management (IAM)** for DataMesh, including role-permission UI and real-time **pipeline status updates** via **Socket.io**, with **Kafka** and **Zookeeper** connecting backend services, serving over **2,000 users**.


## PROJECTS

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### VS Code Extensions

- **Explorer Plus** : Enhanced the **VS Code file explorer** with file/folder stats and sorting; gained early adoption with positive feedback from developers.
- **Code Folder Summary** : Provides a quick visual breakdown of file types in a project, improving onboarding and project analysis for new developers.
- **File Size and Count** : Displays file/folder size and count on hover, helping teams manage large projects more efficiently.

### Chrome Extension

- **Read Canvas** : A **Chrome extension** that automates reading CAPTCHAs from HTML canvas elements; includes a working demo GIF (*see it in action*).

*All projects publicly available on GitHub and the VS Code Marketplace.*

## EDUCATION

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### Bhagalpur College of Engineering, Bhagalpur

*B.Tech in Electrical Engineering (CGPA: 8.2)*

*Jul 2018 – Sept 2022*



### Sainik School Punglwa Nagaland

*Science, High School Education (81.2%)*

*May 2010 – June 2017*




## AWARDS

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- **Exemplary Performance Award (2023)** – Recognized for outstanding delivery and impact 
- **Dedication Award (2024)** – Recognition for sustained contributions and leadership 

## CERTIFICATIONS

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- **An Introduction to Artificial Intelligence** IIT Delhi
- **Programming, Data Structures and Algorithms using Python** IIT Madras
- **Data Analytics at E&ICT Academy** IIT Kanpur

## TECHNICAL SKILLS

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- **Languages**
  - Python, JavaScript (ES6+), SQL
  - HTML5, CSS3, SCSS
- **Frameworks & Libraries**
  - **Backend:** Django, Flask, FastAPI
  - **Data:** PySpark
  - **Frontend:** ReactJS, Material UI, React Flow, Bootstrap
- **Databases**
  - **Relational:** PostgreSQL, MySQL, SQLite
  - **NoSQL / Search:** MongoDB, Elasticsearch
- **Tools & Platforms**
  - **Cloud:** AWS (EC2, S3)
  - **Containers & Orchestration:** Docker
  - **Data:** Delta Lake, Snowflake, Apache Superset, Apache Kafka
  - **DevOps & Testing:** Nginx, Git, GitHub, GitLab, Postman, Selenium
  - **OS:** Linux
- **Runtime Environments & API Architecture**
  - NodeJS
  - REST, GraphQL
  - Microfrontends