

Keshav Raj

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SUMMARY

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

Infor Jul 2024 – Present

Hyderabad, India

- Software Engineer

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

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

Bhagalpur College of Engineering, Bhagalpur

Jul 2018 – Sept 2022

B.Tech in Electrical Engineering (CGPA: 8.2)

Sainik School Punglwa Nagaland

May 2010 – June 2017

Science, High School Education (81.2%)

AWARDS

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

CERTIFICATIONS

- 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

- **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