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 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 audt 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 ≈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**: Docker, Docker Compose
  - **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
- **AI & Developer Productivity**
  - Prompt Engineering (LLM-driven development, debugging and product design)
  - AI Coding Assistants: GitHub Copilot, Amazon Q
  - AI-First Tooling: Kiro, Antigravity, Claude Code