

RISHWANTH VALLALA

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EDUCATION

Vasavi College of Engineering

Bachelor of Engineering in Information Technology | 8.3 CGPA

Hyderabad, India

2021 – 2025

EXPERIENCE

Juspay

Software Engineer

Jul 2025 - Present

Banglore, India

- Spearheaded the enhancement of the core UPI real-time data pipeline, elevating data accuracy from 90% to 99.98% through rigorous root-cause analysis and deep debugging of the Haskell codebase.
- Took full ownership of the Haskell streaming pipeline, troubleshooting and resolving critical production issues, thereby minimizing downtime and ensuring data pipeline integrity.
- Independently developed a new transactions sessionizer and re-architected the mv_txns pipeline to migrate the two most-used analytics tables off of unreliable legacy ETLs.

Juspay

SDE Intern

Jan 2025 - Jun 2025

Banglore, India

- Contributed to building a real-time streaming pipeline in Haskell, replacing legacy batch ETLs to reduce data latency for transaction analytics from hours to seconds.
- Enhanced the SDK data pipeline by implementing new features based on stakeholder requirements and optimized ClickHouse performance using TTLs and materialized view rollups.
- Automated data validation by enhancing an R-based accuracy reporting framework to proactively identify and alert on discrepancies between PostgreSQL and ClickHouse.

Unistring Tech Solutions Pvt. Ltd

Software Engineer Intern

Sept 2023 - Jan 2024

Hyderabad, India

- Developed a Python client-server security application using TCP and MySQL to manage network-wide USB access, implementing a VID/PID whitelist for 500+ authorized devices.
- Deployed the solution to 50% of company systems, achieving a 30% reduction in unauthorized access incidents and verifying performance of 1000+ requests/second under load.

PROJECTS

Any Scrape

Django, React, Fine-tuned LLaMA-3, Firebase(FireStore), Python

Mar 2024 - July 2024

Hosted

- Developed a SaaS web scraping data pipeline powered by a fine-tuned LLaMA-3 model; grew the service to 100+ monthly active users with secure, API key-based access.
- Architected a scalable solution using Firebase and Netlify, featuring a 3-tiered subscription model and multiple data output formats (JSON, Markdown).

Saved Prompts

Html, JavaScript, Chrome Extension APIs

Dec 2022 - Jan 2023

Github Hosted

- Created a browser extension facilitating seamless organization, and retrieval of High quality ChatGPT prompts
- Published the extension gaining **4000+ users** and a **4.8/5** star review on the Chrome Web Store.

SKILLS

Languages: C, Java, Python, Haskell, SQL, JavaScript, HTML/CSS

Frameworks & Technologies: Django, React, Node.js, Next.js, Express.js, Spring Boot

Databases: MySQL, PSQL, Clickhouse, SQLite, MongoDB, FireStore

CERTIFICATIONS

CS50x (Harvard), **Networking** (Cisco), **Python DSA** (NPTEL), **ML Foundations** (AWS)

POSITIONS OF RESPONSIBILITY

Web Developer, DSAC (Data Structures Club) | **Head of Marketing**, Suruchi (Fashion Club), VCE