

# Resume - Vinay Keerthi K. T.

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## Key Skills

- Languages: Python, Rust, Javascript
- Generative AI: Deepseek R1 (locally hosted the distilled model), Llama 3.1, ChatGPT
- GenAI Tooling: ollama, ChatGPT API Development, LM-Studio
- Web Frameworks: Flask (Python), Axum (Rust), Expressjs (Node/Deno)
- Others: Apache Airflow, Dagster, Redis, Jenkins, Github Actions, Docker, K8s
- Have been using Linux for over 20 years (since 2005)

## Experience

### ChainSafe

**Engineering Manager / Lead Software Developer | Fully Remote | November 2022 - February 2025**

- Managed a team of 4, providing technical and career-based guidance.
- Worked on **Python** and **Rust** based tooling for developers, including internal monitoring scripts, data-quality alerting systems and setup **dagster** for data pipelines for accounting and blockchain event tracking.
- Evaluated **LLM** based tooling for management, investigating cost vs benefits to automate report generation and automated cleanup of github projects and issues. Worked with **OpenAI ChatGPT 4** and **Llama 3.1**
- Worked on building a custom **LLM** that interfaces with internal and external APIs, providing a chat-based interface for managers to track and manage their teams' OKRs in line with the organization's goals.
- Worked on building an inhouse **LLM** that uses Solidity audit data to provide customers with a bot that can assist them in self-audits. This used Llama 3.1 and stored the training data on Chroma DB.
- Created dashboards and metric collectors for EVM wallets to track balances and alert cross-chain contract creators when the balance is below the threshold.
- Worked with external stakeholders for proof-of-concept in projects across blockchains, including, but not limited to, nym, filecoin and **ethereum**.
- Worked with technology leaders in requirements gathering, writing work proposals and ran sprints with developers to meet customer deadlines.
- Reviewed **Rust** code across projects, providing insight into improving code quality and adherence to the core spirit of the language.
- Worked on a **Rust** networking library integrating `libp2p` with blockchain protocols.
- Worked on building **solidity** tooling for `foundry` to deploy to multiple chains using the Sygma framework.

**BE Mechanical Engineering (2010)**

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- Developed tutorials for on-boarding new developers to the company's technology stack, including **Substrate** and **Rust**.

## Merkle Science

**Lead Software Developer | Bangalore - Remote | JULY 2021 - November 2022**

- Built a team for internal tooling, managed scouting for talent, hiring and interviewing.
- Created a **Rust** library for the **Polkadot** blockchain for internal use, exposed via `PyO3` and `maturin` into **Python**.
- Created a **Rust** library for ingesting data from various blockchains with low latency.
- Conceptualized and developed the data-engineering toolkit - a multi-faceted **CLI** that facilitates the movement of data across data stores, and opens up our data layers for quality and consistency-related metrics, using **Rust**.
- Designed the alerting system for all our services.
- Designed and wrote the data quality service using **Rust** - this application goes through the data of various **blockchains** to identify missing or newer data.
- Reworked the internal packaging system to leverage modern **Python** practices such as `poetry`.
- Designed a load-balancer to place over our blockchain nodes (internal and vendor-hosted). Led a team of 2 engineers who built this.
- Designed and wrote a websocket client to ingest blockchain data from various websocket implementations of chains using **Rust**.
- Overhauled **Apache Airflow DAGs** for modularity.
- Developed a central **Python** library for all utilities and internal code.

## VISA Inc.

**Sr. Software Engineer - Data Platform | Bangalore | MAY 2019 - June 2021**

- Created dashboards to visualize productivity during the onset of COVID-19 so that managers could identify the distribution of workload.
- Designed and spearheaded the security portal project, a REST layer that facilitates automation of security updates for PCI compliance while adhering to company-specific rules regarding service availability, using OSS and internal APIs to minimize maintenance time.
- Mentored college graduates to build their first applications, integrating native pipelines, helped them craft detailed documentation and tune the performance of their apps.
- Developed internal tools to orchestrate servers, including a tool to run parallel ssh-based connections, like `ansible`, but with company-specific requirements.
- Designed and developed a bootstrapping tool for developers to quicken onboarding.
- Conducted **Python workshops** with a varied audience, training them on how to set up Python projects, how to package them and how to build python modules so that they are shareable.
- Mentored and trained SDE-1s and interns, guiding them in design and implementation details.

## GKN Aerospace India

**Software Engineer | Bangalore | DEC 2015 - MAY 2019**

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- Built a company-wide search engine that indexed all files in an Elastic-Search server and allowed users to query both text and proprietary binary formats.
- Built wrapper libraries in **Python** leveraging **PyCuda** and **NVIDIA** libraries for engineers to use within **Jupyter** notebooks.
- Managed Jenkins pipelines and Subversion source code registry singlehandedly.
- Conducted annual training in **Python** and Data Analytics for Mechanical Engineers.

## Flipkart Internet Pvt. Ltd.

Bangalore | FEB 2014 - DEC 2015

- Used `PyQt` and **Python** to build a work allocation tool for content writers, that allowed them to report their work and set up pipelines for editors and content-creators to leverage their output.
- Created an application to generate thousands of [Infographics on Products for sale during the Big Billion Day](#)

## Personal Projects & OSS

- Spoke at IndiaFoss2.0 in a Birds-of-a-feather event - [Is Rust Ready for Enterprise Adoption?](#)
- Spoke at the Bangalore Python Meetup about using Rust as a Python developer - [Explicit is Better than Implicit - Rust for Pythonistas](#)
- Livecasted myself reading the [PostgreSQL Documentation](#) over a weekend for fun.
- Spoke at PyCon India 2019 on [MicroPython: Building a Physical Inventory Search Engine](#).
- Built a visualization dashboard atop of BitBucket and Github, to visualize developer productivity and project momentum using statistical control charts.
- Regularly conduct workshops on `Flask` and `Python` at the Bangalore Python meetup group - [Web Application Security with OWASP Principles, Flask Workshop](#)
- Completed the Advanced Kubernetes Training from `learnk8s.io`

## Other Experience

### • FEB 2011 - FEB 2014

- Trained in using statistical control methods for improving quality and production at TVS group companies. Used Excel and Python for improvements across the shop floor
- Interned at IISc, Bangalore, used Python to study the strength of airplane wing composites.

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