

Taru Garg

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WORK EXPERIENCE

HashiCorp, an IBM Company

Feb 2025 – Present

Software Development Engineer 2

Bengaluru, IN

- Lead maintainer for Vagrant ecosystem, responsible for fixing bugs, implementing new features, improving reliability, and reviewing community PRs.
- Led the architecture and design of configurable Run Task integration between HCP Packer and Terraform, defining a flexible framework for configuring image validation and policy enforcement during infrastructure provisioning.
- Implemented Enforced Provisioners in HCP Packer, introducing a framework for mandatory provisioner execution that improved image build consistency, policy enforcement, and operational reliability.
- Reduced cloud costs by \$100K/yr for Vagrant Registry by optimising AWS S3 storage strategies, to asynchronously move infrequently used objects to a cheaper tier, using Cadence.

JPMorgan Chase & Co.

Jan. 2022 – Feb 2025

Software Development Engineer

Bengaluru, IN

- Led design and implementation of a highly scalable Python-based trade & risk management system, delivering $5\times$ higher throughput than the legacy system and improving reliability through a monitoring layer that consolidated downstream alerts and dynamically routed them to responsible teams.
- Built an end-to-end pipeline to streamline derivative & stock trade data delivery using Python & Apache Avro, transferring data from Risk Management to downstream systems, supporting \$50M+ in daily transaction volume.
- Accelerated regulatory and risk reporting, reducing report runtime from 2h $\rightarrow$ 1.5m (99%) and 5h $\rightarrow$ 15m (95%), respectively, lowering compute costs and mitigating audit risk through caching, multiprocessing, and efficient data transformations through Pandas and Numpy.

JPMorgan Chase & Co.

Jun 2021 – Aug 2021

Summer Intern

Bengaluru, IN

- Built e-mail-based data quality reporting service in Python with Django for the Data Assets & Analytics platform, enabling technologists and researchers to detect and resolve anomalies across enterprise data sources swiftly.

EDUCATION

Thapar Institute of Engineering & Technology

Punjab, IN

B.E. Electronics and Computer Engineering; GPA: 9.80; Gold Medalist

2018 – 2022

PROJECTS

Portfolio | *HTML, CSS, JS, Git*

Mar 2019 – Present

- Developed personal portfolio website using HTML, CSS, and vanilla JS.
- Implemented integrated blog support to publish and manage content directly within the site.

myPhone | *Python, Flask, HTML, CSS, JS, Git*

Aug 2021 – Dec 2021

- Developed a full-stack web application using Flask and Jinja.
- Implemented clipboard sharing, file sharing, and notification sync between smartphone and computer.

PUBLICATIONS

P. Verma, **T. Garg**, and A. Shukla, “Survey and Performance Evaluation of Clustering and Cooperative Medium Access Protocols for Vehicular Networks”, in *Advanced Communication and Intelligent Systems*, 2023, pp. 245–257.

SKILLS

Languages & Tools: Golang, Python, C++, Pandas, SQL, Vagrant, Packer, Terraform, Flask, Numpy, Git, Docker

Industry Knowledge: PostgreSQL, MySQL, Protobuf, gRPC, Apache Kafka, Django, AWS - S3, Cloudfront, Aurora

Open Source Contributions: Docling, Packer, Vagrant

HONORS, AWARDS & CERTIFICATIONS

- Attained AWS Cloud Practitioner certification by Amazon Web Services in July 2023.
- Graduated with highest CGPA in Electronics & Computer Engineering, earning the institute medal.