

Krishna Kumar Verma

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Summary — I am a backend developer with a solid foundation in Go and Python, specializing in building secure and scalable server-side applications and APIs. I focus on creating reliable APIs, optimizing performance, and leveraging cloud-based systems to ensure scalability. I enjoy solving complex challenges, automating processes, and improving system efficiency while contributing to meaningful and impactful projects.

Education

Rajkiya Engineering College Sonbhadra
Bachelor of Electronics Engineering

2017 – 2021

Experience

Timble Technologies Pvt Ltd
Software Development Engineer (L3)

Feb 2025 – Present

Secure Key Management & Auto-Unseal System

- Built a Vault-like key management system in Go for secure secret storage and controlled access.
- Implemented Shamir's Secret Sharing to split and reconstruct master secrets securely.
- Integrated Consul as a backend for shard persistence and high-availability coordination.
- Developed an automated unseal mechanism with failover using fully open-source tools.
- Created secure CLI and REST API interfaces for sealing, unsealing, and administrative operations.

Encryption Engine, CLI Tools & MSI Packaging

- Developed a modular CLI tool supporting string, file, and folder encryption/decryption.
- Integrated AES, RSA, and PGP encryption for flexible and layered data protection.
- Designed per-file AES key generation and RSA public key encryption, with keys fetched from Vault.
- Enabled secure file delivery by bundling encrypted data with corresponding encrypted keys.
- Packaged the Go-based CLI into a production-grade Windows MSI installer using WiX Toolset.
- Automated cross-platform builds (GOOS=windows) and MSI generation in CI/CD pipelines.
- Configured installer layout, version upgrades, and silent install/uninstall for enterprise deployment.

WhiteLint Global Pvt Ltd
Software Developer (Research and Development)

Jan 2023 – Mar 2024

Malware Defense & Network Automation (Wafer, Golang Tools)

- Developed Wafer, an embedded Linux system to counter malware threats like ransomware, trojans, and worms.
- Implemented real-time packet filtering and firewall rules to detect and block malicious traffic.
- Preserved network integrity by analyzing traffic patterns and enforcing strict access controls.
- Built a Golang-based web interface and backend for remote network configuration via SSH.
- Enabled dynamic/static IP management and simplified remote configuration workflows.
- Provided on-call support, performed root cause analysis, and implemented scalability improvements.

Azure IoT Hub Integration & Cloud Migration

- Built and deployed Azure IoT Hub scripts for real-time device telemetry and data transmission.
- Enabled efficient data ingestion, low-latency processing, and Azure-based storage.
- Optimized cloud scripts for performance and reliability across hybrid environments.
- Configured monitoring tools and automated tasks to reduce manual intervention.
- Documented cloud workflows and system configurations for seamless team onboarding.
- Migrated workloads to a hybrid cloud setup and fine-tuned database performance via indexing and query tuning.

Sofcon India Pvt Ltd
Software Engineer (SWE)

Jun 2022 – Dec 2022

- Developed a comprehensive data science training program using Python and libraries like NumPy, Pandas, Matplotlib, and Scikit-learn.
- Taught data analysis, API design, and machine learning concepts to students.
- Designed and executed industry-relevant projects that focused on real-world data challenges.
- Emphasized hands-on experience in API development, data analysis, and visualization.
- Provided practical exposure to data-driven solutions, helping students apply theoretical knowledge to solve client problems.

Data Science Training
AlmaBetter (Data Analysis)

May 2021 – May 2022

- Covered fundamentals of Python programming and key libraries like NumPy, Pandas, Matplotlib, Seaborn, and Scikit-learn.

- Taught machine learning concepts, including supervised and unsupervised algorithms.
- Provided comprehensive training in SQL, Excel, and data analysis techniques.
- Focused on data modeling, visualization, and building predictive models.
- Explored the mathematics behind data science, including statistics and algorithms.

Projects

Weather Detection Prototype

2021

- Built a temperature and humidity measurement prototype using Arduino UNO.
- Integrated specialized sensors for real-time environmental monitoring.
- Demonstrated sensor technology and IoT capabilities.

Hotel Booking Analysis

2022

- Analyzed hotel booking data using Python for city and resort hotels.
- Performed data importing, cleaning, preparation, and visualization.
- Emphasized anonymity of personal data and published results on [Github](#)

Skills

Languages Python, C++ , Bash, Golang
Cloud Tech AWS-EC2, Nginx, Docker
Databases PostgreSQL, SQL, MongoDB
Frameworks FastAPI, Django, Django Rest Framework

Libraries Pandas, NumPy, Matplotlib
DevOps Linux, Shell scripting, Git, CI/CD
Security Iptables, Suricata, Pfring, Putty
Monitoring Grafana, Prometheus

Certification

- Python [Link](#)
- REST API [Link](#)
- Data Analysis [Link](#)

Achievements

- Earned a 5-Star Python rating on HackerRank.