

# SHASHANK PANDEY

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## OBJECTIVE

Senior Backend Engineer with 5+ years of experience in Python, Golang, Flask, and Django, seeking full-time Software Development roles. Proven track record in designing and developing efficient applications, optimizing performance, and leading cross-functional teams to deliver high-quality software solutions. Extensive experience with CI/CD pipelines and containerization. Passionate about solving complex problems and contributing to impactful projects.

## EDUCATION

**Bachelor of Engineering**, Dr Ambedkar Institute Of Technology  
Major in Computer Science - 9.14 CGPA

2015 - 2019

## SKILLS

<b>Programming Languages</b>	Python, Golang, Dart
<b>Web Frameworks</b>	Flask, Django
<b>Databases</b>	PostgreSQL, MongoDB, BoltDB, Elasticsearch
<b>DevOps and Automation</b>	Docker, Docker Compose, Ansible, Jenkins, Packer, Shell Scripts
<b>Cloud Platforms</b>	Openshift Container Platform, AWS
<b>Operating Systems</b>	Linux (Ubuntu, CentOS), Windows
<b>Concepts</b>	OOP, Virtualization, Networking, Backend Development, OAuth2 Authorization

## EXPERIENCE

**Team Lead** Jul 2024 - Current  
Xoriant (Maplelabs) Bangalore, Karnataka

- Led the design and development of a **Django**-based price optimization tool, utilizing **OAuth2 authorization** and **GraphQL** queries to securely fetch data from Cisco's commerce website. This tool provided optimized pricing recommendations for servers with matching configurations, enhancing cost efficiency and competitiveness.
- Led the design and development of Device Connector Emulators for Cisco devices using containerization, **Networking, Golang, and Python**.
- Developed a proof of concept (POC) for a smart log triaging solution using **Azure OpenAI** and **logreduce**. This solution significantly accelerated the manual log parsing process, enabling quicker identification of error causes.

**Senior Software Engineer** May 2023 - Jun 2024  
Xoriant (Maplelabs) Bangalore, Karnataka

- Led the design and development of the **Flask**-based IMM Transition Tool, streamlining migrations between one server management tool to another, resulting in a seamless migration process for many users.
- Spearheaded design decisions and led code reviews for the **Golang**-based DRR Estimator project for FlashBlade, seamlessly integrating advanced compression algorithms. My leadership ensured the development of highly efficient, easily maintainable, and scalable code, significantly boosting its performance.
- Actively contributed to **code reviews** and **design discussions** for the **Django**-based NX OS SANITY (TAAS) project, playing a key role in reducing high latency **API performance** issues by approximately **90%**, improving test execution efficiency and reliability.

**Software Engineer** Aug 2020 - Apr 2023  
Maplelabs Bangalore, Karnataka

- Engineered a **Django**-based HxPreInstall Tool, enhancing pre-deployment planning for HyperFlex Clusters, significantly improving installation efficiency and user experience

- Contributed to the design and integration efforts for the **Golang**-based Data Classification Application, focusing on **MongoDB** replica sets for enhanced database management and integrating **Apache Tika** for accurate content extraction, resulting in significant improvements to data integrity and classification precision
- Successfully refactored over **20,000 lines** of code of **Flask**-based IMM Transition Tool, boosting code efficiency, maintainability, and readability by a substantial margin.

### Associate Software Engineer

Maplelabs

Jul 2019 - Jul 2020

Bangalore, Karnataka

- Developed profiling support for Linux VMs using **Golang**, enabling comprehensive performance measurements across multiple **vCenter/HyperV** deployments, enhancing system diagnostics and resource management
- Key contributor to the **Django + Elasticsearch** based HX Profiler tool, providing accurate estimations of compute, storage, and network usage for hosts and VMs, facilitating precise infrastructure sizing and optimization
- Optimized the **Django**-based HxBench tool by introducing **multiprocessing** in **Python**, significantly reducing report generation time and improving operational efficiency

## PROJECTS/INITIATIVES

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**OVA Automation Tool:** Designed and developed the **Ansible + Packer** based OVA Automation Tool, automating the entire process of creating an OVA from VM creation, OS installation, configuration, to final export. Achieved a 100% reduction in release cycle time, significantly expediting the availability of new software versions to customers.

**CD Automation:** Developed a CD automation pipeline using Jenkins and OVA Automation Tool to create dynamic builds, significantly accelerating development and testing processes.

**Facial Recognition Login Mobile App:** Created a Flutter mobile application enabling users to log in to their workplace using facial recognition. This app enhances security and convenience by integrating advanced biometric authentication, ensuring a seamless and secure user experience. You can find the code here [Clockwrk](#).

**Open Source Contribution:** Identified and resolved critical **multithreading deadlock** issues in three **Open-Source** Python repositories ([ucsmsdk](#), [ucscsdk](#), and [imcsdk](#)) by enhancing the synchronization logic, significantly enhancing the reliability during **concurrent** execution. Also contributed to the Open-Source Python repository of [boltdb](#) by resolving a critical issue that prevented reading the data from the file, due to storing incorrect ‘free-ids’ in the DB file.

## EXTRA-CURRICULAR ACTIVITIES

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- Started writing [blog posts](#) about challenging problems I encountered during development.

## AWARDS AND RECOGNITION

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- Received 4 excellence awards for my excellent work ethic and contribution to diverse projects.