

# ASHUTOSH VERMA

+91-7355437836 [◇ ashutosh.career19@gmail.com](mailto:ashutosh.career19@gmail.com) [◇ ashutoshverma.com](mailto:ashutoshverma.com)  
[linkedin.com/in/ashutosh-verma-b90083106](https://linkedin.com/in/ashutosh-verma-b90083106) [◇ github.com/vKrypto](https://github.com/vKrypto)

## BRIEF SUMMARY

I am a Senior Software Engineer with over 6 years of experience. My focus is on Test-Driven Development, Agile Development, and microservices architecture. I have always been innovative enough to solve complex issues. Particularly, my specialization is in Python, React, Next.js, Django, and React Native as shown by my work in the development of [ornaz.com](https://ornaz.com) scoring Lighthouse metrics of 100/100 and less than 500ms page load time for an e-commerce website.

## EDUCATION

**Bachelor of Technology**, Gurukul kangri University

June 2015 - May 2019

## SKILLS

Languages	Python, Node, Java, JavaScript, TypeScript, Go, PHP, HTML, CSS, Batch, C++
Frameworks/Library	Django, FastAPI, React-Native, Selenium, ReactJS, VueJS, ElectronJS, Pytest.
Database	PostgreSQL, SQLite, Redis-Server, MongoDB, Snowflake, FireBase
Tools	Git, Docker, Kubernetes, Sentry, JMeter, RabbitMQ, Kafka, Tox, gcore.
Other Skills	Nginx, Apache, Kafka, CDN, Various AWS Services, System Design, AndroidStudio, Xcode.

## EXPERIENCE (7 YEARS)

**Senior Software Engineer: SDE-3**

[NAV Backoffice Pvt. ltd.](#)

August 2024 - Present

Gurugram, India

- Accelerated job performance, cutting execution time from **200 Sec to 9 Sec** through optimization (22x speedup).
- Resolved critical memory leak in a FastAPI app consuming 800 GB in under 5 days.
- Re-engineered legacy .NET data sync service using SQL Server SPs, improving maintainability.
- Deployed full-stack monitoring, integrating Kibana for uptime tracking and Grafana for resource metrics.

**Senior Software Engineer: SDE-3**

[Shyftlabs](#)

December 2023 - August 2024

Gurugram, India

- Configured Tox for **GitLab pipelines** and **CI/CD** workflows.
- Built Tox for **GitLab pipelines** and **CI/CD** workflows.
- Spearheaded the migration from PSQL to SQLite to transform a legacy API project into a TDD environment for testing purposes, Reaching a remarkable **98%** test coverage, and detecting/resolving over 90 critical bugs.
- Designed and developed a POS-based inventory management system for a US retail chain, streamlining operations across 2600+ stores, using NextJs and FastAPI.

**Senior Software Engineer: SDE-3**

[ORNAZ](#)

April 2021 - November 2023

Gurugram, India

- Developed a desktop-specific e-commerce website using NextJs ([ornaz.com](https://ornaz.com)).
  - Implemented **PWA** and other optimizations, achieving **100/100** lighthouse score, avg page load time **0.5s**.
  - Integrated multiple payment gateways with guest checkout options.
- Migrated from a monolithic to a **microservices architecture**.
  - Developed four main microservices, two service workers, and three main servers.
  - Utilized high availability databases (2 master-3 slave) for main servers.

- Achieved **99.99% uptime** using Docker Swarm.
  - Crafted a Monitoring Panel with Grafana and Prometheus to oversee system health and trigger alarms.
  - Achieved API response time under 50-100ms.
  - Optimized frontend caching for the fastest e-commerce app performance and Improved customer retention.
- Monitored user journeys in real-time and developed a platform to create campaigns and Configure campaign **push notifications**, emails, and SMS in real-time based on user journey to optimize the conversion funnel.

## Senior Software Engineer: SDE-2

April 2020 - April 2021

ORNAZ

Gurugram, India

- Reduced development time by 30% by utilizing **React Native** for cross-platform development and also increased user reach by 40% with apps compatible across multiple devices and platforms.
- Created an **Augmented Reality** based browser and native app using **MediaPipe C++** module for a **Real-Time trial store**, resulting in a **50%** increase in user engagement and leading to a **30%** increase in sales conversion.
- Developed a static **Static trial store** reaching users with low-end devices, resulting in a **30%** increase in user base. reducing load time by 80% and improving overall performance.

## Software Engineer: SDE-1

June 2018 - April 2020

ORNAZ

Gurugram, India

- Built a mobile-friendly e-commerce system using Django MVT, integrating multiple payment gateways and a user tracking system.
  - Reduced cart abandonment rate by 25%, increasing sales by 40%.
  - Improved user engagement by 30% and returning customers by 20%.
- Developed a robust **CRM** with customer journey analytics, lead management, product, pricing, order, factory, and raw material management which improves sales efficiency by **40%**.

## PROJECTS

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### E-Commerce Platform for Diamond Jewellery ([ornaz.com](http://ornaz.com)):

Led development of a React Native mobile app, increasing mobile sales by 25% and improving load speed by 30%.

Built an SEO-optimized desktop web app, cutting bounce rates by 40% and boosting online transactions by 50% with secure payment integration.

**Operation Management Tool for Staff** ([ornaz.com/dashboard](http://ornaz.com/dashboard)): Architected and deployed an integrated dashboard system, reducing order processing times by 50% and enhancing team collaboration, leading to a 30% boost in operational efficiency.

**Diamond Compare App** ([ornaz.com/diamond-compare](http://ornaz.com/diamond-compare)): Engineered a dynamic web tool, increasing user engagement by 35% and facilitating seamless comparison of diamond attributes, resulting in a 20% increase in conversions.

**RealTime Virtul Trial Room** ([ornaz.com/realtime-tryon](http://ornaz.com/realtime-tryon)): Innovated a Realtime-3D try-on store, achieving a 40% rise in user interactions and driving a 25% increase in average order values through immersive try-on experiences.

**Virtul Trial Room: Mobile** ([ornaz.com/try-on-hand](http://ornaz.com/try-on-hand)): Developed a mobile app enabling virtual ring try-ons, leading to a 30% increase in user-generated content sharing and enhancing customer satisfaction.

## EXTRA-CURRICULAR ACTIVITIES

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- Consistently producing invaluable insights and best practices blog posts and social media content on industry best practices; increased engagement rates by 50% and drove 30% more traffic to [ashutoshverma.com](http://ashutoshverma.com). I aim to share my knowledge and experience, particularly with fellow developers, to empower them in their journeys

## LEADERSHIP

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- At ORNAZ, I superheaded all of their tech products, and at ShyftLabs, I have spearheaded the development of a POS system app that is being used across 2600 stores all over the USA and at NAV, Currently I am working on improvement of overall systems performance and optimization.