

HIMANSHU WANKHADE

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Education

Bennett University | **CGPA: 8.5**

📅 2023 – 2027

B.Tech - Computer Science and Engineering (Dual Specialization: Cloud Computing + Blockchain)

📍 Gr. Noida, UP

Experience

Scaler (by InterviewBit)

📅 Jan 2026 – Present

DevOps SME Intern

📍 Bengaluru, Karnataka

- Led AWS curriculum overhaul, designing end-to-end lecture scripts and technical hands-on labs for **1200+** learners.
- Built **20+ Hands-On DevOps Lab** Environments on AWS using ECS and ASG enabling users to perform scenario-based exercises on Docker, K8s, Jenkins, Linux, and GitHub Actions in production-style ephemeral infra.
- Engineered **IAM Guardrails** across **100+ AWS lab accounts** using permission boundaries and explicit deny policies to enforce least privilege and prevent unauthorized provisioning.
- Contributed to the **Scaler 3.0** revamp, helping improve the DevOps + CyberSec program NPS from **20** → **62** by updating content, running AMAs, and supporting AI mock interview and Platform Engineering additions.

Garaaz

📅 May 2025 – June 2025

SDE Intern

📍 Jaipur, Rajasthan

- Built MongoDB aggregation pipelines and **MongoDB Charts** dashboards to generate internal analytics and insights.
- Implemented React-based input validation for invoice workflows, reducing invalid user entries and backend errors.

Bennett University

📅 Sept 2024 – Dec 2024

Research Apprentice | **Blockchain Enabled 5G Networks**

📍 Gr. Noida, UP

- Worked on a research paper under Prof. Bhavana exploring intersections of **5G and Blockchain**, including smart contracts, SLAs, decentralized AI/ML, DAOs for 5G governance, and NFV/SDN for scalable 5G infrastructure.

Technical Projects

Container Provenance Verification Platform 🔄 | *Sigstore, Cosign, K8s, ArgoCD, GitHub Actions, Helm, Golang*

- End-to-end GitOps container provenance pipeline using Sigstore + K8s admission webhooks, mitigating npm/registry style supply chain attacks via keyless signing; stolen token can't publish trusted artifacts without **CI OIDC identity**.
- **Keyless cryptographic** image signing via Cosign + Fulcio-issued ephemeral **X.509 certificates** (10-min TTL) + Rekor transparency logs; private key discarded post-sign, no long-lived secrets.
- Multi-stage CI/CD with Trivy + govulncheck scanning, immutable SHA digest promotion across **Dev** → **Staging** → **Prod**; ArgoCD GitOps with human-gated PR approval for production.
- Enforced K8s admission-time image verification via Sigstore Policy Controller, blocking **unsigned, tampered, or non CI-originated** images at cluster level, independent of ArgoCD.

Vellum - Distributed Signal & Incident Response System 🔄 | *Golang, gRPC, Psql, MongoDB, Redis(Lua), TimescaleDB*

- Go **Ingestion pipeline** handling **10,000 signals/sec** at **p99 latency < 2ms** over HTTP and gRPC; bounded-channel backpressure with per-source token-bucket rate limiting decouples ingest from DB I/O.
- Atomic Redis Lua debounce groups **100 correlated signals per component / 10s into one incident**; race-tested under **300-goroutine** concurrency, **100x** alert-noise reduction.
- State pattern drives incident lifecycle (**OPEN** → **INVESTIGATING** → **RESOLVED** → **CLOSED**) on PostgreSQL **SERIALIZABLE** transactions; closure gated on a validated RCA with auto-computed MTTR. **Polyglot storage**: MongoDB (audit), PostgreSQL (work items), TimescaleDB (time-series)
- Strategy pattern alerter (PagerDuty / Slack / Console) with exponential-backoff retries and a MongoDB dead-letter; **Next.js** 14 operator UI, one-command **Docker Compose**.

Swiftcart - Monolith to Event-Driven Cloud Migration 🔄

- Architected a Zero-Trust **dual-VPC** network (public DMZ + dark private subnet) with **Transit Gateway** and **AWS PrivateLink**, eliminating public internet exposure for all backend services.
- Implemented **CQRS** over **SNS** → **SQS** fan-out: sync reads via Transit Gateway, async checkout via SNS publish; decoupling the web tier from inventory with eventual consistency.
- Replaced **EC2** polling daemon with **Lambda** (arm64) + SQS event source mapping; containerised web tier via Docker + Docker-Compose with **EFS** shared storage and gp3 **EBS** (3000 IOPS) for inventory cache.
- Enforced **IAM** Instance Profiles (zero long-lived keys), **CloudTrail** audit trail, and **CloudWatch** alarm on SQS depth ≥ 100 with SNS-triggered SRE alerting.

Skills

Programming Languages: C++, Golang (Gin)

Cloud and Infrastructure as Code: AWS, Terraform

Containerization and Orchestration: Docker, Kubernetes, Helm

CI/CD and DevOps Tooling: Git, GitHub Actions, GitLab CI/CD, ArgoCD, Linux

Monitoring and Observability: Prometheus, Grafana

Leadership & Extracurricular

Computer Society of India

📅 Sept 2023 – May 2025

Chief Strategist

📍 Bennett University

- Organised Hackaccino'24, a 24-hour National Hackathon with **1,800+ participants** and **400+ teams** across five tracks, sponsored by Polygon, ETHIndia, and you.com
- Led a **50+ Member** chapter, conducting DevOps and Cloud workshops and driving academic Research Initiatives for junior students

The Product Folks

📅 Nov 2023 – Apr 2024

Product Management Fellow | TPF Lead

📍 Bennett University

- Delivered 8 PM artefacts across **Teardown Decks** (CRED, Myntra, Flipkart), a **PRD** (Fi Money), **RCA Case Studies** (Swiggy, Paytm), product improvement (Rapido), and **Ideation Doc** (Baskin-Robbins) spanning Fintech, E-Commerce, and Logistics domains.
- Drove Insurjo'24, a national Product Management cohort; speakers from Palo Alto, Google, Instagram, and Tinder, and a Live **Product Hackathon** in partnership with Descope.