

Nileet Savale

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Education

Indiana University

M.S. in Computer Science, Bloomington, IN

Aug 2024 - Jul 2026

GPA: 3.83/4

Savitribai Phule Pune University

B.E. in Computer Science, Pune, Maharashtra, India

Jul 2020 - Jul 2024

CGPA: 8.9/10

Experience

Founder & CTO

Jan 2026 - Present

Stamp'd, Bloomington, IN

- Built a full-stack travel intelligence platform (Next.js + Hono, **90+** endpoints, **29**-table Postgres) integrating **7** APIs (Anthropic Claude, Amadeus, Stripe, Tesseract OCR) for real-time visa validation across **190+** countries at **sub-200ms** latency.
- Architected security-first infrastructure: **AES-256-GCM** passport encryption, nonce-based CSP, and RLS isolation across **27** schema migrations deployed on Vercel + Supabase, cutting monthly cost **69%** (\$80→\$25/mo).
- Containerized with **multi-stage Docker**, shipped **10+** production releases with **4** automated cron workflows to **100+** beta users; selected **1 of 148** startups for the Amplify Accelerator (2026 cohort).

Forward Deployed Engineer

Aug 2025 - Aug 2026

Global Health Impact (GHI), Tobias Center, Indiana University Bloomington, IN

- Slashed deployment time by **75%** by designing and maintaining **CI/CD pipelines** with Jenkins, Docker, and Nginx, eliminating manual release processes and standardizing deployments across multiple production environments and development teams.
- Administered cloud-hosted services supporting **99.9% uptime**, implementing monitoring, incident response workflows, deployment safeguards, and proactive health checks to improve production reliability and operational resilience.
- Engineered **RESTful APIs** and data ingestion pipelines for healthcare analytics while migrating legacy Flask apps to **Next.js**, reducing entity-matching errors by **30%** and improving frontend maintainability, data quality, and reporting accuracy.

Research Assistant - Data Analytics & Machine Learning

Jan 2026 - June 2026

Indiana University School of Public Health Bloomington, IN

- Reduced data preprocessing time by **60%** by engineering SQL-based ingestion pipelines for NHANES datasets spanning **180K+** records across **9 survey cycles**, automating data cleaning, validation, and transformation workflows.
- Developed regression and classification pipelines using statistical learning techniques to analyze relationships between nutritional biomarkers and cardiovascular outcomes across large population-scale health datasets derived from CDC sources.
- Integrated CDC and NIH datasets through automated validation pipelines, improving data quality and reproducibility for research.

Software Engineering Intern

Nov 2023 - Apr 2024

Wipro PARI Ltd Pune, Maharashtra, India

- Improved industrial automation validation efficiency by **15%** through FAT3 testing, process optimization, and structured validation procedures across **3** large-scale automation deployments supporting manufacturing operations.
- Increased system validation accuracy by **20%** by developing standardized testing workflows, defect tracking procedures, deployment readiness checks, and integration validation processes across engineering teams.
- Collaborated across multiple teams to troubleshoot integration issues and ensure production readiness of automation platforms.

Machine Learning Engineer Intern

Jan 2023 - Jun 2023

SearchIn Maharashtra, India

- Developed computer vision models for smart retail checkout systems, training item-recognition pipelines to identify products placed into camera-enabled shopping carts in real time and support automated checkout workflows.
- Built barcode detection and image-processing workflows using machine learning and computer vision techniques, improving product identification accuracy, reducing manual checkout interactions, and enhancing customer experience.
- Integrated ML inference pipelines into retail systems, enabling automated item tracking, inventory recognition, and checkout.

Software Engineering Intern

Jan 2022 - Apr 2022

Atul Ltd Gujarat, India

- Built an enterprise administration platform serving **75+** facilities and **5,000+** employees, streamlining administrative operations.
- Built backend services and real-time data synchronization pipelines, reducing information retrieval latency by **40%** across systems.
- Collaborated with cross-functional stakeholders to deliver scalable software solutions supporting large-scale industrial systems.

Projects

Enterprise Live Data Sync Framework - Real-Time Log Processing Pipeline

C++, Python, Docker, Prometheus, Grafana

- Engineered a **25-command** Redis-compatible server from scratch in **C++** implementing the RESP wire protocol over raw TCP, fixing a payload-truncation bug and processing **13,672** logs across **3,070** lines of code with **zero** data loss.
- Built a two-stage validation and delivery pipeline (Python/FastAPI) achieving a **94.3%** cloud acceptance rate via token-bucket rate limiting and exponential backoff with jitter, cutting retry storms across **2,758** requests despite a **5.7%** injected fault rate.
- Orchestrated **7** Dockerized services with a multi-stage build, exposing Prometheus metrics scraped every **5s** across **3** targets to a **6-panel** Grafana dashboard for real-time pipeline observability.

Loop Runner - SaaS Autonomous AI Coding Agent Platform

Python/FastAPI, Next.js 14, Kubernetes, Redis

- Built a full-stack agentic coding platform (Python/FastAPI + Next.js 14/TypeScript) running an autonomous write-test-retry loop with live token streaming over WebSocket and auto-commit via GitPython on verification pass.
- Designed a **4-provider** LLM abstraction (Anthropic, OpenAI, Gemini, Mistral) with a BYOK key vault encrypted **AES-256**/Fernet, and Redis pub/sub WebSocket fan-out enabling horizontal pod scaling with no sticky sessions.
- Deployed a production **Kubernetes** stack with Job-per-session pod isolation, HPA, shared PVC, and a **3-stage** GitHub Actions CI/CD pipeline shipping SHA-pinned, rollout-verified deploys.

Technical Skills

Languages:

Python, C/C++, Java, JavaScript, TypeScript, SQL

Frameworks:

FastAPI, Next.js, React.js, React Native, Node.js, Express.js

Cloud & DevOps:

AWS (EC2, S3, RDS, DynamoDB), Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Git

Databases:

PostgreSQL, MongoDB, DynamoDB, Firebase

ML / AI:

PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, NLP, OpenAI APIs, LLMs

Systems:

Linux, Distributed Systems, REST APIs, Microservices, OOP, Agile/Scrum, Statistics, vLLM

Publication:

[Transforming Household Waste Management: IoT-Enabled Smart Dustbin](#)

IEEE, Oct 2024

Certification:

[AWS Certified AI Practitioner \(AIF-C01\)](#)

Nov 2025 - Nov 2028