

RUSHIKESH YEOLE

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EDUCATION

Pune Institute of Computer Technology

Bachelor of Engineering in Computer Engineering · SPPU

2023 – 2027

Pune, Maharashtra

EXPERIENCE

ASSERTION Inc.

Software Engineer Intern

Jun 2026 – Sep 2026

Pune, India (Remote)

- Built an **AI log telemetry & diagnostic intelligence** for a real-time voice observability platform, replacing Drain3 with a **self-improving, LLM-driven pattern engine**, that persists clusters into regex memory, achieving **up to 99% zero-shot cross-client generalization** and eliminating inference costs across **100M+ syslogs**.

PROJECTS

Neokey – Vaultless Credential Synthesis Platform | Creator & Architect

Node.js, Redis, Argon2id, BLAKE3, GCP

[Live](#) | [GitHub](#)

- Built and launched a **vaultless, zero-knowledge credential platform** that synthesizes passwords **client-side at runtime**, eliminating **persistent server-side password and PII storage**.
- Designed a **split-key synthesis architecture** using Argon2id, HMAC, and **opaque indexing**, rendering **database exfiltration ineffective**.
- Optimized a low-latency pipeline, achieving **sub-200 ms P95 latency** while **preserving zero-knowledge** guarantees.

Cogni – Cognitive Authentication Layer | Creator & Architect

Conformal Prediction, Statistical ML, FastAPI, PostgreSQL, GCP

[Live](#)

- Architected a **cognitive biometric trust layer** that authenticates users by **instinctual decision patterns** and response friction rather than static credentials.
- Engineered a multi-gate policy cascade (bot detection, tempo shifts, **conformal evidence test**) to evaluate session risk, **achieving 0% attacker penetration** with **86% genuine acceptance**.
- Built an **autonomous GenAI pipeline** synthesizing dilemmas from live world news and deduplicating via embeddings, **eliminating runtime LLM inference from the critical auth path**.

Horizon – Career Intelligence Platform

FastAPI, Neo4j, LLMs, MongoDB, Redis

[Live](#) | [GitHub](#)

- Built an AI-powered career intelligence platform that generates **personalized career roadmaps and company-fit analyses** using **live hiring signals**, Neo4j knowledge graphs, and Pydantic structured outputs.
- Engineered an **asynchronous retrieval and synthesis pipeline** that analyzes **job requirements, market trends, and user profiles** to produce **evidence-grounded career recommendations** at scale.
- Developed a **self-improving intelligence layer** backed by an **evolving Neo4j knowledge graph**.

SKILLS

Languages: Python · C++ · JavaScript

Backend & Systems: FastAPI · Node.js · APIs · Redis · MongoDB · SQL · System Design

CS Fundamentals: Data Structures & Algorithms · Object-Oriented Programming · OS · Database Systems

DevOps & Cloud: Docker · Git · Google Cloud Platform

Applied AI: LLM Systems · Generative AI · RAG · Agentic AI · Knowledge Graphs (Neo4j)

EXTRACURRICULAR

2x University Finalist, Smart India Hackathon (2024 & 2025)

Finalist, Techfiesta 2025 (PICT INC)