

# Pratik Pingale

FULL-STACK DEVELOPER · CLOUD-FOCUSED ENGINEER

Pune, India

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## Skills

**Programming Languages:** C#, C/C++, TypeScript, Python, Kotlin. **Frameworks:** ASP.NET Core, gRPC, Angular, Django  
**Cloud, DevOps & Databases:** Microsoft Azure, Google Cloud, AWS, Kubernetes, Helm, PostgreSQL, CI/CD  
**Practices & Tools:** Git, Linux, Unit & Integration Testing, Threat Modeling, SDLA Compliance, SAgile

## Professional Experience

### Emerson

Pune, India

SOFTWARE ENGINEER

Feb 2023 - Current

- Contributed to the MVP release of cloud migration replacing a legacy on-prem tool, supporting roadmap targets of 1,000+ global sites and a major revenue stream, by driving feature implementation and cross-team coordination.
- Re-architected data workflows into **gRPC** microservices with On-Prem data caching and async workers, cutting data fetching latency by **~93% (5000ms to 350ms)** and reducing database read-load by **~60%**, improving end user reliability.
- Optimized Kubernetes deployments through resource tuning, Horizontal Pod Autoscaling (HPA), and Prometheus monitoring, lowering CPU usage per pod by **48%**, increasing throughput by **2.5x (up to 500 requests/sec)**, and reducing cloud infra spend by **~32%**.
- Improved system reliability by raising unit and integration test coverage from **38% to 54%** and enforcing CI/CD automated smoke tests, resulting in a **62%** reduction in monthly SEV incidents (**13 to 5**).
- Strengthened secure-design & delivery practices by authoring threat models, SDLA-compliant design docs and security checklists that ensured **zero critical security findings** across multiple releases, enabling predictable PI delivery without sprint spillovers.
- Led the internal rollout of AI-assisted development tools (GitHub Copilot) across the engineering team, accelerating feature delivery by reducing average code-review cycle time by **~25% (48h to 36h)** and increasing merged-PR throughput by **~30%**.

### Convin.ai

Pune, India

BACKEND ENGINEER AND ANDROID DEVELOPER

Sept 2021 - Apr 2022

- Redesigned ingestion pipelines using Django REST, asynchronous workers, and PostgreSQL indexing, increasing throughput to **~1,500** calls/day and reducing end-to-end latency by **~40%**.
- Automated language detection for **98%** of calls by integrating Amazon Transcribe with custom NLP heuristics, improving transcript quality to **~85%** and reducing manual corrections by **~60%**.
- Developed a production-ready enterprise Android application (Kotlin) featuring secure call recording and resumable background synchronization.
- Achieved successful recording uploads within 5 minutes for **~90%** of sessions, reducing manual audio transfer requirements by **~75%**.
- Collaborated with a 13-person team on CI/CD pipelines, client onboarding and feature prioritization, delivering a centralized call-review integration for a 30-person management team. (Letter of Recommendation) 📄.

## Projects

### DarkSpider 📄

Pune, India

AISSMS COE

Aug 2022 - Feb 2023

- White paper: Anatomy of the Dark Web's Network Structure to Detect Illicit websites 📄
- Engineered a multithreaded crawler to map dark-net site structures as a directed graph, utilizing PageRank algorithms to identify high-value nodes.
- Developed incremental crawling with content-based ranking and change detection mechanisms with URL expiration handling to maintain dataset freshness and eliminate redundant fetches.
- Implemented rate limiting and sandboxed execution environments to ensure ethical research practices and minimize operational impact during data collection.

## Education

### AISSMS College of Engineering

Pune, India

BACHELOR OF TECHNOLOGY IN COMPUTER ENGINEERING

Aug 2019 - Aug 2023

- Graduated with *Honours* in *Data Science and Machine Learning*.

9.38 CGPA

## Achievements

- |         |                    |  |             |
|---------|--------------------|--|-------------|
| 2025    | <b>Certificate</b> | Microsoft Certified: Azure Fundamentals (AZ-900) 📄 | Pune, India |
| 2024-25 | <b>Certificate</b> | Recognition for Outstanding Contribution           | Pune, India |
| 2024    | <b>Winner</b>      | Emerson 2024: Capture The Flag (Hack The Box)      | Pune, India |
| 2020    | <b>Winner</b>      | Internal Hackathon for Smart India Hackathon (SIH) | India       |