

# 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, SAFe Agile

## 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 Certificate Microsoft Certified: Azure Fundamentals (AZ-900) ↗  
2024-25 Certificate Recognition for Outstanding Contribution  
2024 Winner Emerson 2024: Capture The Flag (Hack The Box)  
2020 Winner Internal Hackathon for Smart India Hackathon (SIH)

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