

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, CI/CD, PostgreSQL, RabbitMQ, NATS, Redis
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

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