

Pratik Pingale

FULL-STACK DEVELOPER · CLOUD-FOCUSED ENGINEER

Amruthdhara, Charholi, Pune, India

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Skills

Programming & Frameworks C#, C/C++, TypeScript, Python, Kotlin, ASP.NET, Angular, Django

Cloud, DevOps & Databases Microsoft Azure, Google Cloud, AWS, Kubernetes, PostgreSQL, CI/CD

Practices & Tools Git, Linux, Unit & Integration Testing, Threat Modeling, SDDA Compliance, SAFe Agile

Professional Experience

Emerson

Pune, India

SOFTWARE ENGINEER

Feb 2023 - Current

- Delivered a MVP release of cloud migration replacing a legacy on-prem tool while meeting all quality and security gates, supporting roadmap targets of 1,000+ sites (projected to generate ~\$400M+ in annual recurring revenue), by driving feature implementation, release planning, and cross-team coordination.
- Re-architected core configuration flows into lightweight microservices with On-Prem data caching and async workers, cutting configuration-fetch latency by ~93% (5000ms → 350ms) and reducing database read-load by ~60%, which improved end-user sync reliability.
- Optimized Kubernetes deployments (resource tuning, HPA, node autoscaling and Prometheus-based monitoring), lowering CPU usage per pod by 48%, increasing throughput from 200 → 500 requests/sec (2.5x), and reducing cloud infra spend by ~32%.
- Lifted engineering quality via test automation and observability: raised unit/integration coverage from 38% → 54%, enforced CI gates and automated smoke tests, and reduced SEV incidents by 62% (13 → 5 per month).
- Strengthened secure-design & delivery practices — authored threat models, SDDA-compliant design docs and security checklists, ran threat reviews with architecture and security teams, and delivered releases with zero critical security findings, enabling predictable PI delivery without sprint spillovers.
- Rolled out AI-assisted development (GitHub Copilot) across the engineering team, accelerating feature delivery by reducing average code-review cycle time ~25% (48h → 36h) and increasing merged-PR throughput ~30%.

Convin.ai

Pune, India

BACKEND ENGINEER AND ANDROID DEVELOPER

Sept 2021 - Apr 2022

- Cut end-to-end call-to-insight latency by ~40% and increased pipeline throughput to ~1,500 calls/day by redesigning backend ingestion and batching in Django REST (ETL, async workers, Postgres indexing).
- Improved multilingual transcript quality to ~85% and automated language-detection for 98% of calls by integrating Amazon Transcribe with language-detection filters and custom NLP heuristics, reducing manual transcript corrections by ~60%.
- Built and productionized an enterprise Android app (Kotlin) for secure call recording + resumable background sync; reduced manual audio transfers by ~75% and achieved successful uploads within 5 minutes for ~90% of recordings.
- Collaborated with a 13-person team on feature prioritization, client onboarding and CI/CD pipelines; delivered a client integration that enabled a 30-person management team to centralize call reviews (Letter of Recommendation) ↗.

Projects

DarkSpider ↗

Pune, India

AISSMS COE

Aug 2022 - Feb 2023

- Anatomy of the Dark Web's Network Structure to Detect Illicit websites ↗
- Built a focused, multithreaded crawler that maps dark-net sites as a directed graph and applies PageRank to identify high-value nodes for further analysis.
- Implemented incremental crawling with content-based ranking, change detection, and URL expiration handling to keep the dataset current and reduce redundant fetches.
- Ensured operational safety through rate limiting, sandboxed execution, and systematized test harnesses, minimizing crawl impact and aligning with ethical research practices.

Education

AISSMS College of Engineering

Pune, India

B-TECH IN COMPUTER ENGINEERING

Aug 2019 - Aug 2023

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

9.38 SGPA

Achievements

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