Pratik **Pingale**

FULL-STACK DEVELOPER · CLOUD-FOCUSED ENGINEER

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Summary

Full-Stack and cloud-focused software engineer with experience designing and deploying secure, scalable services on Kubernetes and Azure. Skilled in CI/CD, monitoring with a strong track record of improving reliability, ensuring compliance, and delivering enterprise-grade solutions in agile environments through secure architecture and efficient cloud practices.

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, SDLA-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*

Certifications & Skills

Certifications	Microsoft Certified: Azure Fundamentals (AZ-900) ⌕
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, SDLA Compliance, SAFe Agile