

# Pratik Pingale

FULL-STACK DEVELOPER · CLOUD-FOCUSED ENGINEER

Amruthdhara, Charholi, Pune, India

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"I believe I can and I'm halfway there."

## 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, 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) ↗.

## Organizational Experience

### AISSMS COE

Pune, India

CORE TEAM MEMBER GOOGLE DEVELOPER STUDENT CLUB

Sept 2020 - Sept 2022

- Led the Competitive Programming Team and organized multiple virtual and in-person events for freshmen and juniors.
- Conducted events focused on Git, Data Structures, Algorithms, and Competitive Programming, helping participants understand fundamental concepts and improve their coding skills.
- Contributed as a member of the Web Development Team to the DSC AISSMS COE ↗ official website.
- Technical Skills:** Python (Algorithms, Data Structures), Tailwind CSS, Firebase, Git.
- Soft Skills:** Leadership, Time Management, Communication, Logical Thinking.

### AISSMS COE

Pune, India

CORE TEAM MEMBER MICROSOFT STUDENT CLUB

July 2021 - Sept 2022

- Built a university Timetable Scheduler ↗ model with a colleague, which uses a genetic algorithm and is portable for various scheduling scenarios, such as school timetables or employee timesheets.
- Designed the scheduler to be flexible for any case, with lower time complexity compared to existing models that were only useful in specific scenarios.
- Developed a Certificate App ↗ for easier certificate generation and distribution, which helped the college's Sports Department manage certificates for competitions and events.
- Technical Skills:** Python with genetic algorithms, Django, HTML5, CSS3, JavaScript, CI & CD, Git.
- Soft Skills:** Teamwork, time management, communication, logical thinking.

# Projects

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## 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.

## Timetable Scheduler ↗

Pune, India

AISSMS COE

Sept 2021 - Jan 2022

- Developed an intelligent timetable generator for university scheduling using a Genetic Algorithm, automating the creation of conflict-free timetables.
- Designed and implemented logic to satisfy both hard constraints (such as no overlapping classes and room availability) and soft constraints (such as preferred time slots and faculty preferences) to optimize scheduling efficiency.
- Built the system using Python and Django, leveraging Genetic Algorithms for iterative improvement and solution convergence.
- Enhanced teamwork and project delivery through effective time management, collaborative problem-solving, and clear presentations of technical concepts.

## Museum Gallery ↗

Pune, India

PERSONAL PROJECT

May 2020 - Aug 2020

- Created a virtual reality museum application enabling users to explore museum galleries remotely, enhancing accessibility and user engagement.
- Developed the application for Android using Java and integrated Google VR SDK to deliver immersive 3D experiences.

## Twitter Sentiment Analysis ↗

Pune, India

PERSONAL PROJECT

Apr 2022 - May 2022

- Implemented sentiment analysis on Twitter data using vaderSentiment, CountVectorizer, and KMeans clustering to classify and visualize public opinion trends.
- Processed and cleaned tweet texts by removing stop words, tokenizing, stemming, and lemmatizing to improve model accuracy and reliability.
- Utilized Python libraries including Pandas, NumPy, seaborn, and scikit-learn for data manipulation, analysis, and visualization.

# Education

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## AISSMS College of Engineering

Pune, India

B-TECH IN COMPUTER ENGINEERING

Aug 2019 - Current

- Graduated with Honours in *Data Science and Machine Learning* 9.38 SGPA
- **Relevant Coursework:** AI, ML, Deep Learning, NLP, Blockchain, Security, DBMS, Data Structures, Computer Graphics, Discrete Math, Big Data Analytics, Data Visualization, Statistics

# Skills

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

Pune, India

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

9.38 SGPA

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

# Achievements

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2025 **Certificate** Microsoft Certified: Azure Fundamentals (AZ-900) ↗

Pune, India

2025 **Certificate** Recognition for Outstanding Contribution

Pune, India

2024 **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

2015 **Winner** District level Karate Competition

Pune, India

# Interests

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**Linux** Since 2020, I have loved using Linux. Linux ricing ↗ is my hobby.

**Karate** I started karate at age 15 and have participated in several state and national-level competitions.

**Music** I enjoy almost all types of music, but my favorite genres are aesthetic EDM and electro.