

Anil Gaikwad

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Summary

Software engineer with **3+ years** of experience in backend development using **Python, FastAPI, Serverless, Django, and AWS**. Skilled in building and optimizing **REST APIs**, designing scalable architectures and improving system performance through optimization, delivering high-quality solutions in fast-paced environments.

Skills

Languages: Python, SQL, C, JavaScript

Frameworks & Libraries: FastAPI, Django, Serverless, Node.js, Celery

Cloud & DevOps (AWS): AWS Lambda, Amazon S3, SQS, EC2, AWS Batch, OpenSearch

Databases: DynamoDB, MongoDB, PostgreSQL, SQLite

Tools & Platforms: Git, Docker, Terraform, Jenkins

Experience

Software Engineer – Entropik, Bengaluru, India

Apr 2024 – Present

- Implemented **Celery** for background task management, offloading compute-heavy tasks to improve resource efficiency and enabling asynchronous processing, resulting in a **40% increase in system performance**.
- Designed and integrated modular survey question management using scalable **design patterns (Factory, Strategy)**, reducing feature development time by 25% and increasing code maintainability.
- Enhanced system performance with event-driven architecture using **AWS DynamoDB streams**, reducing API response times from **500ms to 350ms** and data load times from **2s to milliseconds** for real-time analytics.
- Remediated 100% of critical and high-severity vulnerabilities identified during **Vulnerability Assessment and Penetration Testing (VAPT)**, ensuring zero unresolved issues post-assessment.

Associate Backend Engineer – Entropik, Bengaluru, India

Feb 2022 - Mar 2024

- Streamlined real-time user feedback collection for **diary studies** via **AWS Batch** and **WebSocket** integration, while reducing media upload time by 40% using **Amazon S3 Accelerate** and **multipart uploads**.
- Optimized scalability and throughput of high-traffic APIs by implementing **pagination, caching**, async processing, and improving **OpenSearch/database queries**, cutting API response times from **2s to 300ms**.
- **Migrated AWS serverless functions** to **Python FastAPI**, cutting latency from **3s to under 1s** and enhancing backend scalability and responsiveness.
- Developed robust **unit tests** for **AWS services** using **LocalStack**, reducing test execution time by 30% and increasing test coverage.
- Collaborated with cross-functional teams to define API contracts, reducing integration time by 20%.

Python Developer (Intern) – Wissen Baum, Pune, India

Sep 2021 – Dec 2021

- Designed and implemented **RESTful APIs** using **Python** and **Flask**, boosting system performance by 30% and reducing average response time from **1.4s to 800ms**.
- Optimized **MySQL** queries, reducing execution time by **20%**, improving dashboard load speed and data retrieval efficiency.
- Collaborated with a cross-functional team of **4 developers** to ensure smooth frontend-backend integration, leading to a reduction in API failure rates.

Education

M.Sc. in Computer Science

Jun 2019 - May 2021

Department of Computer Science, Pune University.

B.Sc. in Computer Science

Jun 2016 – May 2019

Sangola College, Sangola