

Madhav Hemakumar

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PROFESSIONAL SUMMARY

Highly motivated and results-driven Software Developer with 4+ years of experience in building scalable web applications using Python, Django, and modern JavaScript frameworks. Proven ability to optimize database performance and collaborate effectively in Agile environments.

Skills

- Python
- Django
- React
- AWS (EC2, S3, Lambda)
- PostgreSQL
- Docker
- Kubernetes
- Git/GitHub
- RESTful APIs
- CI/CD Pipelines

Experience

Senior Software Engineer — TechNova Solutions Pvt Ltd (Jan 2021 – Present)
Bengaluru, India

- Led the migration of a legacy monolithic application to a modern microservices architecture using Django, Flask, and AWS Lambda, resulting in a 40% reduction in operational costs.
- Designed and implemented high-throughput REST APIs that handle over 1 million requests daily, utilizing optimized PostgreSQL queries and Redis caching layers.

- Mentored junior developers on best practices for clean code, unit testing, and continuous integration using GitLab CI.
- Improved application performance by 25% by identifying and resolving bottlenecks in database indexing and asynchronous task processing (Celery).

PROJECTS

Real-Time Stock Portfolio Tracker — (Tech: React, Node.js, WebSocket, MongoDB, AWS)

Developed a full-stack application that allows users to monitor their stock portfolios in real-time, integrating with external financial APIs for live data feeds and historical analytics.

Impact: Achieved sub-second data synchronization fidelity across all user devices, providing critical decision-making insights. Deployed the solution using Docker containers on AWS ECS.

Education

B.Tech in Computer Science and Engineering, Cochin University of Science and Technology (CUSAT)
(2020)

9.1/10.0 CGPA