Madhav Gupta

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Profile Summary

Highly skilled full-stack software engineer with over 5 years of professional experience designing, developing, and deploying scalable web applications. Proven expertise in backend architecture, RESTful API development, database optimization, and cloud deployment. Adept at collaborating with cross-functional teams, mentoring junior engineers, and translating complex business requirements into efficient technical solutions. Strong advocate of clean code, system design best practices, and continuous learning.

Education

- Bachelor of Science in Computer Science, Stanford University (2015–2019) | GPA: 3.8/4.0 | Coursework: Data Structures, Algorithms, Operating Systems, Database Systems, Computer Networks

- Master of Science in Software Engineering, Massachusetts Institute of Technology (MIT) (2019–2021) | Specialization: Distributed Systems & Cloud Computing | Thesis: Scalable Microservices Architecture for High-Traffic Applications

Experience

- Senior Software Engineer, Tech Corp (2021–Present) – Architected and led development of cloud-based, microservices-driven applications serving over 500k monthly users. Designed REST and GraphQL APIs, improved backend performance by 30%, implemented CI/CD pipelines using GitHub Actions, and reduced production incidents by 40%. Mentored a team of 5 junior engineers and conducted code reviews to maintain high engineering standards.

- Software Developer, StartUp Inc (2019–2021) – Developed scalable backend services using Python and Django, integrated modern frontend interfaces using React, and collaborated closely with product and design teams. Optimized database queries resulting in a 25% reduction in response time and played a key role in deploying applications on AWS infrastructure.

Project

- Scalable E-commerce Platform – Designed and implemented a full-stack e-commerce application supporting 10k+ active users, featuring secure payment processing, role-based access control, order management, and real-time inventory updates.

- Collaborative Task Management System – Built a web-based project tracking tool with real-time collaboration, user roles, and notification services using WebSockets and REST APIs. Improved team productivity by streamlining task workflows.

- Resume Builder Application – Developed a dynamic resume generation system capable of producing ATS-friendly PDFs from structured user input using Python and ReportLab.

Skills

- Python

- JavaScript

- TypeScript

- React

- Django

- FastAPI

- REST APIs

- SQL

- PostgreSQL

- MySQL

- AWS

- Docker

- Kubernetes

- Git

- CI/CD

- System Design

- Microservices Architecture

Achievements

- Employee of the Year 2023 at Tech Corp for outstanding technical leadership and project delivery excellence

- Published 3 in-depth technical articles on Medium with over 50,000 cumulative views, covering backend scalability, API design, and cloud best practices

- Active contributor to 5+ open-source projects on GitHub, including bug fixes, feature enhancements, and documentation improvements

- Speaker at internal tech talks and developer meetups on system design and backend performance optimization