

Shourya Sinha

Back-End Developer

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SUMMARY

Python-focused Back-end Developer with 4 years of experience designing scalable microservices in cloud-native environments (AWS). Strong background in REST API development, CI/CD, and DevOps workflows using Docker and GitHub Actions. Proven ability to automate workflows, improve performance, and contribute to secure and testable code in Agile teams.

EXPERIENCE

Application Development Analyst 09/2023 - Present
Accenture

- Designed and implemented Py-Qt based GUI Excel based tool, enabling chained operations on large datasets, reducing processing effort by ~70%.
- Designed and developed high-performance automation systems using Python to process 25,000+ support tickets monthly, reducing turnaround time by 75%, leveraging multi-threading and parallel processing techniques.
- Developed robust short-URL backend services with Node.js, Express, and MongoDB—supporting custom aliasing, analytics, and failover strategies.
- Optimized applications, tuning over 500 database queries leading to a 25% boost in overall application performance.
- Designed and deployed asynchronous services using Python and FastAPI to automate backend operations, integrating with ServiceNow and Twilio APIs.
- Implemented a selective regeneration feature for contracts, which reduced redundant contract generation by 60%, by utilizing state tracking to identify unchanged data, improving system efficiency.

Application Development Associate 08/2021 - 09/2021
Accenture

- Led the migration of databases from MySQL to PostgreSQL, boosting data integrity and system performance by 20%, ensuring improved database scalability and fault tolerance.
- Followed TDD practices using pytest and maintained >80% unit test coverage.
- Participated in daily stand-ups and code reviews, enhancing team collaboration and code quality.
- Integrated third-party APIs, expanding application functionalities and improving user experience.
- Streamlined file management across Linux servers, creating custom scripts with cron jobs, leading to 20% reduction in operational overhead. Utilized compression techniques for archiving files, enhancing the speed and reliability of file handling.

Back-end Intern 05/2021 - 08/2021
Grapus

- Collaborated with frontend team on React-based modules, reducing feature delivery time by 15% through efficient API integration
- Contributed to the development of high-quality software solutions, meeting or exceeding project milestones and ensuring a positive user experience.

EDUCATION

Electronics & Telecommunication 06/2017 - 05/2021
Narsee Monjee University - Bachelor of Science

SKILLS

Python	Expert	SQL	Expert
Java	Advanced	MongoDB	Intermediate
Javascript	Intermediate	AWS(E2C,S3)	Intermediate
React	Intermediate	Docker	Intermediate
Django	Expert	GitHub Actions	Intermediate
Node js	Advanced	CD/CI	Intermediate
FastAPI	Intermediate	Problem-solving	Expert

PROJECTS

Large File Processor

- A system which can handle long running processes (source) (Tech stack: Jupyter Notebook, Python, MySQL)
- Developed a system for importing and processing large CSV files containing over 500,000 product records.
- Utilized Microsoft SQL Server and SQLite for database operations, with performance benchmarking achieving CSV import in 19.39 seconds using SQLite.

Short-URL

- A platform for creating and managing shortened URLs (Tech stack: Node.js, Express, MongoDB, JavaScript)
- Developed a feature-rich URL shortening service with custom alias support for personalized short links.
- Designed the system for scalability with MongoDB, including failover strategies to handle increased traffic.

LANGUAGES

English	Fluent	Hindi	Native
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