Vinit Kumar

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Skills

Programming: Python, JavaScript, TypeScript, Go, git
DevOps: AWS, Google Cloud, Digitalocean, and Heroku
Web: Django, FastAPI, React, Express, PostgreSQL, Sqlite, Redis, RabbitMQ, Elasticsearch

Experiences

Staff Engineer, SocialSchools B.V.   *Feb, 2013 - Present*
Pune, India

- Implemented a highly scalable, distributed multi-tenant CMS that powers over 2500 domains, providing a seamless experience for end users
- Developed and deployed an in-house monitoring and scanning tool to generate real-time uptime reports for all domains in our cluster, ensuring reliability and performance
- Leveraged Celery and RabbitMQ to implement a distributed task queue for processing complex, compute-heavy background jobs and cron tasks, improving efficiency and speed
- Improved the experience index for end users through targeted performance optimization and optimization of key metrics
- Implemented a serverless provisioning system in AWS, reducing implementation time by 90% and providing greater flexibility and scalability
- Built a media processing system that is capable of handling a wide range of video formats and scales seamlessly with changing workloads
- Developed ReSTful APIs using the Django Rest Framework, enabling easy integration with web and mobile applications
- Integrated performance monitoring tools like new relic and sentry to track key metrics and ensure optimal performance
- Set up CI and automated checks for code quality, improving the reliability and maintainability of the codebase
- Led the containerization of the codebase, allowing for local development on any operating system and providing greater flexibility for the development team
- Implemented code review workflows and best practices, fostering a culture of collaboration and continuous learning within the team
- Mentored junior colleagues on Django and React-based development, sharing knowledge and expertise
- Implemented two-way communication between distributed nodes using JSON Web Tokens (JWT), improving the reliability and performance of the system

- Enhanced the security of the application and worked closely with the cloud provider to mitigate potential attacks
- Maintained close communication with the cloud provider's DevOps team and the CTO, ensuring that our system is always running at peak performance
- Successfully scaled services to handle millions of requests per month, enabling the platform to grow and evolve as needed
- Implemented testing workflows and best practices, encouraging the team to prioritize writing tests as a core part of the development process
- Optimized cloud spending through the implementation of auto-scaling and right-sizing instances, maximizing the value of our investment in cloud infrastructure.

Free Software   *Jan, 2010 – Present*

Volunteer software developer for Open Source projects in free time
- Core developer at [Django CMS](#).
- Primary author and maintainer of [json2xml](#) used by developers at [Google, Amazon, & Nasa among others](#).
- Primary author and maintainer of [node twitter](#), a twitter clone written in node and MongoDB.
- Primary author and maintainer of [white paper](#), a top-10 Jekyll theme.

Education

B.E. in Civil Engineering   *July, 2008 – April 2012*

Birla Institute of technology, Mesra
Specialization: Linux, C, Python Programming.
Graduation project: Use genetic algorithm to predict sedimentation rate for the reservoirs in India

Recommendations

[List of recommendations](#) from past/current colleagues and collaborators in OSS projects.