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

Responsible for:
- Implementing a distributed multi-tenant CMS that powers over 2500 different domains.
- Implementing an in-house monitoring and scanning tool to generate uptime reports for all the domains in our cluster.
- Implementing a distributed task queue with Celery and RabbitMQ to process background jobs, cron jobs, and compute heavy and time-consuming tasks.
- Performance work and successfully improving the experience index for our end users.
- Implementing a serverless provisioning system in AWS that reduces our implementation time to one-tenth of the current implementation time.
- Implementing a media processing system that handles a variety of video formats. The service is asynchronous and scales with the load.
- Implementing ReSTful APIs with Django Rest Framework for web and mobile applications.
- Integrating performance monitoring tools like new-relic and sentry.
- Setting up CI and automated checks for code quality.
- Leading the containerization of the codebase and ensuring that the local development is possible on any operating system, with customized scripts for bootstrapping and development.
- Implementing code review workflows and standard practices within the team and mentoring junior colleagues with Django and React-based development.
- Implementing two-way communication between distributed nodes of applications using JSON Web Tokens (JWT).
- Enhancing the security of the application, and monitor and working with the cloud provider to mitigate attacks on our system.
- Communicating with the cloud provider to get the best possible technical support and work in close coordination with their DevOps team and the CTO.
- Scaling the services for millions of requests/month.
- Implementing testing workflows and motivated the team to adopt writing tests as a core part of the development workflow.

- Optimizing cloud spending by implementing cloud best practices such as auto-scaling, right-sizing instances.

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.