# Vinit Kumar

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## Skills

**Programming:** Python, JavaScript, TypeScript, Go, git
**DevOps:**  Managed AWS, Google Cloud Infra, Shell scripting, Automated Deployments, Monitoring
  crashes and performance
**Web**: Django, FastAPI, React, Express, PostgreSQL, Sqlite, Redis, RabbitMQ

## Experience

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

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

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

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## 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.