Vinit **Kumar**

STAFF ENGINEER ·

Pune, India

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"Nothing is impossible for a determined mind."

Summary

I am a Staff Engineer at Social Schools B.V.

I like writing code that is clean, maintainable, and testable. I have written a multi-tenant CMS that powers around 2300 domains and serves over 50 Million requests/month. Before that, I wrote a Social Network for Schools in The Netherlands. I have extensive experience in working with AWS, and Google Cloud and DigitalOcean.

I have an excellent grasp of backend systems, databases, dynamic APIs, performance optimizations, and automation.

I am also passionate about open source and contribute to many projects on GitHub.

Work Experience

Social Schools B.V.
Leiden, Zuid-Holland, The Netherlands

STAFF ENGINEER
Feb. 2013 - Feb, 2022

- I wrote the Multi-Tenant CMS that powers close to 2300+ domains. Responsible for the architecture and building the most complex features, third party integrations, CI systems and deployments.
- Implemented in-house monitoring system that fulfills our unique monitoring requirements from our distributed system.
- Implemented JWT secure authentication system for two way communication between our platform and third parties.
- Implemented a closed Intranet system for clients with a private platform for sharing content and communication.
- Wrote a notification system from scratch in Django, Celery and RabbitMQ. It enables mobile push notifications, E-mails and In-App notifications. Highly scalable and configuration to handle millions of messages per day.
- Implemented Auto-Scaling for the server and saved thousands of dollars in costs.
- Integrated New Relic, Sentry to ensure speedy resolution of performance issues and crashes. I created bots to automatically create tickets for crashes on GitHub.
- Handled the DevOps for a fast growing product without a dedicated DevOps team and successfully scaled it to 200k users.
- Implemented Media processing system that handles all kinds of video format, images, and documents. Fully Asynchronous and auto-scaling with the load.
- Wrote Restful API in Django Rest Framework with high test coverage to support mobile and web applications.
- Handled difficult upgrades to latest Python, Django and djangoCMS version and migrations.
- Implemented caching with Redis and Memcached.
- Wrote the initial version of multi-tenant CMS taking advantage of PostgreSQL schema and scaled to couple hundred happy customers.
- Key contributor to the project documentation, setup, tooling, shell scripts and makefiles for all repetitive and error-prone tasks.
- Wrote news-feed, calendar and gallery widgets in React for the website to display relevant data from the Application to different websites.

Free Software
GitHub

OPEN SOURCE PROGRAMMER
Dec, 2010 - Current

- DjangoCMS - Core contributor.
- Node Twitter - Author and main contributor.
- JSON2XML - Python library to convert JSON to XML.
- GoogleCL - Author and main contributor.
- White Paper - Top 10 free Jekyll theme with hundreds of active user across the world.

Self Employed
Pune, India

INDEPENDENT CONTRACTOR
Sep. 2012 - Jan. 2013

- Worked on the Proof of Concept of a chrome extension that generated automatic recommendation using Facebook Graph API for Flipkart.
- Wrote officially recognized chrome extension for Coderwall

Education

BIT, Mesra (Birla Institute of Technology, Mesra)
Ranchi, India

BACHELOR OF ENGINEERING
July, 2008 - April. 2012

- Passed BE (Civil Engineering) with First class.
- Self-taught Python, C/C++, Shell Scripting and Linux and led the Linux User Group.
- I was involved with the Fine Art Society and The Dance Club.

Extracurricular Activity

BIT LUG (Linux User Group)   *Ranchi, India*

President   *July. 2011 - Jun. 2012*

- Conducted Linux Install fests and workshops for shell scripting and advanced Linux usage.
- Maintained updated package repository, so that the updates could be installed at 100 MBps on LAN.

BIT DC (Direct Connect Hub)   *Ranchi, India*

Admin   *July. 2011 - Jun. 2012*

- Maintained and contributed to the indexing of TTH for many Tera Bytes of content shared on the local LAN network among 5k users on Campus
- Moderated and wrote scripts for the type of content hosted on the network.
- Wrote scripts to prevent abuse on the LAN.