Vinit **Kumar**

SENIOR SOFTWARE ENGINEER ·

Pune, India

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"Nothing is impossible for a determined mind."

Summary

Currently Senior Backend Engineer (Python) at Dutch product company Social Schools B.V. in a distributed agile setup.

7 years of experience specializing in the Backend development(Python, Django, Flask), infrastructure automation(Docker, Kubernetes), and performance optimizations(New Relic, SQL query optimization).

Super nerd who loves Vim, Linux and macOS and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Almost a decade of FOSS(Free and Open Source Software) experience with tonnes of useful software on GitHub.

Plenty of experience leading a distributed team and delivering high quality system in Python and expertise in Django, Flask, NodeJS and, Celery.

Work Experience

Social Schools B.V.   *Rotterdam, The Netherlands*

SENIOR SOFTWARE ENGINEER   *Feb. 2013 - Sep. 2019*

- Wrote the notification suite 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.
- Worked on Auto-Scaling of platform and saved thousands of dollars in server costs.
- Introduced New Relic, Sentry to ensure speedy resolution of performance issues and crashes. Wrote 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.
- Media processing system that handles all kinds of video format, images, and documents. Fully Asynchronous and auto-scaling with the load.
- Wrote Restful APIs in DRF(Django Rest Framework) with high test coverage to support mobile and web applications.
- Handled upgrades to different Python, Django and DjangoCMS version.
- Enabled caching to enhance throughput and auto-scaling of the backend.
- Wrote the initial version of multi-tenant CMS taking advantage of PostgreSQL schema and scaled to couple hundred happy customers.
- Re-wrote the multi-tenant CMS to a Docker-based system that scales easily to thousand of tenants with no performance bottleneck. Designed feature flags for individual customization. Currently handles around 1000s of websites on this platform.
- Key developer of features such as Group seen-by feature and Like feature for Posts.
- Implemented complex tree-based structure for nested communities and handle fine-grained configurable permission on per community basis.
- 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 provide interesting data from the Application.

Free Software   *GitHub*

OPEN SOURCE PROGRAMMER   *Dec, 2010 - Current*

- Wrote and Open Sourced many useful projects hosted on GitHub, PYPI, NPM.
- Node Twitter (twitter clone written in ExpressJS, MongoDB on a Node backend.
- JSON2XML - Python library to convert JSON to XML.
- GoogleCL - Sole active maintainer of google command line client in Python.
- White Paper - Top 10 free Jekyll theme with hundreds of active user across the world.
- Tornado Chat - Asynchronous Chat server built with Tornado.

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

Writing

GotchaCode   *Technical Blog*

FOUNDER & WRITER   *Jan. 2011 - PRESENT*

- Technical blog (https://gotchacode.com) on a variety of technical topics, programming and life in general.

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 myself Python, C/C++ and Linux and led the Linux User Group in my final year.

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.