

KARTIKEYAN GUPTA

Software Engineer | MTS-2 @ VMware | 3+ YOE



+91-7757800581



kartikeyangupta123@gmail.com



<https://kartikeyan-portfolio.vercel.app>



<https://github.com/kartikeyangupta>



<https://www.linkedin.com/in/kartikeyan-gupta-207273185/>

EDUCATION

Shri Ramdeobaba College of Engineering and Management

B.E., Computer Science and Engineering

CGPA 7.42

Major Hemant Jakate Institute of Science and Technology, Nagpur

Higher Secondary Education

GPA : 84%

Centre Point School , Nagpur(CBSE)

Primary and Secondary Education

GPA : 84%

TECHNICAL SKILLS

- Python, Bash, GO, Java, SQL
- Flask, Django, Nextjs, Reactjs, Node-Js
- Docker, Kubernetes, Helm
- Linux, Centos7, Ubuntu
- Ansible, Puppet, Cerberus, Teraform
- Prometheus, Grafana, Alert Manager, Push Gateway, Splunk, Pager Duty
- TCP/IP, Cloud Networking
- REST, grpc, protobuf
- Data Structures and Algorithms, Design Patterns, Problem Solving
- Frontend, Backend, Full Stack, System Designing, TDD
- Redis, Disk Cache
- Postgres, pgsq
- Gitlab, Perforce, Gitlab CI/CD, Github Actions, Jenkins

CERTIFICATIONS

- Certified Kubernetes Application Developer , Linux Foundation **2023**
- Python Project : pillow, tesseract and opencv, Coursera **2019**
- Bash Programming, Ministry of Human Resource and Development **2019**

LEADERSHIP AND SOCIAL SKILLS

- Spearheaded and Architected projects Micro-Segmentation, Gitlab SSO, Gitlab Pages.
- Participated in VMware Hackathons (Borathon) in 2021, 2022 and 2023.
- Delivered an orientation session for new joiners in 2021, providing insights into SRE and their role at VMware.
- Led the Trojan Horses team in the Smart India Hackathon 2019.
- Served as the team leader for the graduation final year project.

PROFESSIONAL EXPERIENCE

3+ YOE

Member of Technical Staff 2 ,VMware

June 2021 to Present

- Developed an application to streamline the change submission process for updating firewall rules in NSX-T and AVI. Integrated with Ansible and expanded functionality to include changes in IP-tables.
- Contributed to the open-source project "BrideQL," seamlessly integrating with Django ORM. Enables retrieval of user-specific data from the database without the need to create new REST APIs - <https://github.com/vmware/bridgeql>.
- Built an onboarding app with Next.js and Flask, streamlining the process for new joiners/contractors. Authenticated users via LDAP and Workspace One servers, and integrated a Jira-connected form for efficient request submissions.
- Created a FaaS app for users to effortlessly run custom Docker images without infrastructure setup. Added scheduling capabilities using Celery Beat for convenient image execution.
- Manage GitLab on CentOS 7 servers (36K+ users, 90K+ repositories), manage Perforce on CentOS 7 servers (3K+ users, 20+ servers)
- Architected, Automated and conducted multiple disaster recovery drills for our Application using Ansible and Python, thus insuring zero-downtime during Disaster situations.
- Resolved critical P0 issues and incidents during on calls.
- Contributed to Zalando/Postgres-Operator, enhancing Database-as-a-Service for our organization. Improved security by relocating secrets from config-map files to Kubernetes secrets. Elevated Go unit test coverage by 8%.

Member of Technical Staff 1 ,VMware

July 2020 to May 2021

- Implemented comprehensive monitoring, alerting, and health-check solutions for multiple applications using Prometheus, Alert-Manager, Splunk, PagerDuty, and Grafana and Python (Django) for better resiliency.
- Added features on a Django application to enable advanced functionalities such as Partial Git clone and automatic branch merging, while seamlessly updating information on Jira, Bugzilla, and Service Desk tickets.
- Streamlined the rolling update process for our instances by automating it with Ansible and Puppet.
- Migrated Application from our Old infrastructure to a new and better Infrastructure, along with updating our configuration scripts in puppet and Ansible.

Research & Development Intern ,VMware Jan 2020 to June 2020

Designed and implemented a Flask-based application utilizing a microservices architecture, successfully handling 1000 requests per second with an impressive 99.9% uptime. Implemented synchronization mechanisms to eliminate race conditions, and enhanced resilience through the incorporation of Prometheus Pushgateway, Linux virtual machines, Nginx as a reverse proxy, and load balancers.

PERSONAL PROJECTS

- Agent Chanda (Nextjs, Flask, Material UI) **2021**
<https://www.youtube.com/watch?v=gUVMnPGkmY>
- Script to check Covid-19 Vaccine Availability **2021**
<https://github.com/kartikeyangupta/covid19-vaccine-availability-script>
- Elliot Alderson Portfolio Project (Nextjs) **2021**
<https://github.com/kartikeyangupta/nextjs-elliott-portfolio>

ACHIEVEMENTS

- Awarded with "At out Best" by the Management twice.
- Winner of Global Open-Source Borathon, VMware <https://github.com/zalando/postgres-operator> (2021)
- Participated in Borathon hackathons (2021, 2022, 2023)
- Finalist of Smart India Hackathon , 2019.
- Winner of Insomnia Hackathon, VNIT, sponsored by Microland 2019 .
- Winner of CodeHunt 2018 and 2019, GCOEN .
- Third in IEEE Coding Competition, RCOEM, 2019 .