Naveen Kumar
MTS IV - DevOps Engineering & SRE

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7+ years of owning, designing and delivering engineering solutions at multiple organisations in fast-paced multi-cloud and on-premise environments. Certified DevOps Engineer with proven experience in Kubernetes, Serverless and Managed Services from cloud providers like Azure, GCP and AWS.

CERTIFICATIONS
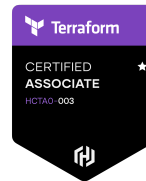
SKILLS

Tools	Docker, Kubernetes, Helm, Vagrant, Terraform
Monitoring	Grafana + Prometheus + Loki, PMM, Kiali
Ingress / Routing	NGINX, Kong, Istio
Scripting	Ansible, Chef, Bash, Python
Backend Frameworks	**echo, gin (golang)**, **Django**, **Flask**, Node.js
Frontend / Mobile	**React, Angular, Vue**, SvelteKit, **Flutter, Cordova**
Languages	**Python**, **Go**, Bash, JS/TS, C/C++, Dart
Datastores	Postgres+postgis, TimescaleDB, MongoDB, Redis
Schedulers	Celery, RabbitMQ

EXPERIENCE

ColorTokens Inc. – Xcloud & Xshield NextGen teams (Cyber Security)   **Bengaluru, India**
MTS 4 - Engineering & SRE   *July 2022 — Current*

- Developed a custom in-house kubernetes operator to simplify developer testing by implementing tenancy-aware routing using Istio.
- Building hardened docker images based on IronBank and chainguard.dev for enhanced security.
- Owning and deploying secure, on-premise, air-gapped kubernetes clusters on vSphere and AWS.
- Integrating secrets and confidential data management with key-rotation support using Hashicorp Vault.
- Converting monolith services running on AWS EC2 and Lambda into kubernetes microservices.
- Worked on developing custom lua plugins on kong for authentication, rate-limiting and external request proxying.
- Developed terraform modules for kubernetes cluster and microservices deployment on Azure and AWS
- Setting up CI/CD pipelines on AWS Codebuild & Azure DevOps.
- Experience using multiple AWS/Azure cloud services like EKS/AKS, S3/Azure Storage Account, VPC/VNET, EC2/VM, ELB, IAM, SES, CloudWatch etc.
- Developed Zero-Trust security analysis workflow on kubernetes clusters for Cloud Security Posture Management (CSPM) on AKS, EKS, GKE platforms.

Auquan Ltd. (Finance Sector)   **Bengaluru, India (Part-time)**
Sr. Full-Stack Engineer   *May 2021 — July 2021*

- Building data pipelines for financial news collection from several search engines
- Redesigned interface for complex graph visualizations between entities
- Maintaining and deploying data pipelines to AWS ECS

Viper Development UG [now FounderBlocks] (Multiple sectors)   **Hamburg, Germany**
Sr. Full-Stack Engineer   *July 2018 — June 2022*

Skynet MCANISM (Ad-tracking platform)
- Improved API response times by 20 times on report generation pipelines
- Reduced database clutter with flat hypertables using time-partitioning on TimescaleDB
- Designed a reusable filtering architecture in django for report generation
- Managed container orchestration using kubernetes and deploying final applications on GCP
- Actively participated in data recovery, production release monitoring, rollback and debugging k8s microservices on GCP
- Worked on scripts for CI/CD pipelines, database snapshots, blob storage backups and access key rotation

Pandas ZF (Human Machine Interfaces)
- Developed a real-time IOT focused web application to collect telematics information from automobile suspension kits
- Extended the real-time data platform to provide historical ride quality information on selected roads

myndpaar.de (Mental Health / Counselling)
- Wire-framing and building a cross platform mobile application for couples counseling in association with myndwerk GmbH
- Engaging users to perform various activities using automated push notifications
- Added in-app payments support for monthly subscriptions

GitMate UG (Developer tools)   **Hamburg, Germany (Part-time)**
Full-Stack Engineer / Developer Tools   *Dec 2016 — July 2018*
- Helped in building a multilingual code linter that supports multiple languages using a single config file
- Built a linting and codesmell detection pipeline from scratch to manage continuous integration for several customers
- Designed an open-source reusable plugin architecture to link the linting pipeline to several cloud based Git-hosting services
- Worked on a duplicate issue detection plugin to identify closely matching issues on GitHub projects

Wipro Business Solutions (Internship)   **Bengaluru, India**
Software Engineering Intern   *May 2017 — June 2017*
- Designed a native Android application to manage ONVIF compliant cameras
- Added Android Auto support to connect with rear parking cameras in automobiles

EDUCATION

Master of Sciences, CS — *University of Illinois, Chicago*   2019 — 2021
Bachelor of Technology, CSE — *National Institute of Technology, Durgapur*   2014 — 2018

HONORS & AWARDS

Mozilla Open Source Support Awardee — **Mozilla**   2018
Google Summer of Code Contributor — **coala**   2017

EXTRA-CURRICULAR ACTIVITIES

Mentor, Google Summer of Code — **coala**   2018
Mentor, Google Code-In — **coala**   2018
Mentor, Google Code-In — **coala**   2017
Mentor, Winter of Code — **IIT Kharagpur**   2017
Open Source Workshops at NIT Durgapur: Admin & Mentor   2016 — 2017