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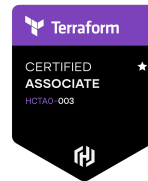
# Naveen Kumar

## 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

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

### EXPERIENCE

#### ColorTokens Inc. (Cyber Security)

MTS 4 — Engineering & SRE

Bengaluru, India

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)

Sr. Full-Stack Engineer

Bengaluru, India (Part-time)

May 2021 — July 2021

- Building data scrapers for financial news collection from several search engines
- Redesigned interface for complex graph visualizations between entities using d3.js
- Maintaining and deploying data scrapers to AWS ECS

#### Viper Development UG [now FounderBlocks] (Multiple sectors)

Sr. Full-Stack Engineer

Hamburg, Germany

July 2018 — June 2022

SkyNet MCANISM (Ad-tracking platform)

- Improved response times by 20 times on report generation pipelines by migrating to TiDB hypertables
- 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
- Developed an electron powered desktop app to visualize thermal imaging data from sensors on a realtime canvas
- 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 using flutter
- Added automated push notifications to improve user engagement
- 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

The Budding Star

**Colortokens Inc.** — 2024

### 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